User Manual

OCEAN

WELCOME

Thank you for choosing the Helio Ocean wireless handset. Developed by our dedicated team of top researchers, this product allows for high speed communication services, such as web browsing, and data services, and has an animated, graphic menu system for easy access to its many features.
Among its many advanced features, the T9 text input mode makes it much easier to enter letters and type messages.
Other included technologies are:

- Full graphic display of 9 text input lines and 1 icon line with variable font size.
- Easy to enter text using T9 text input mode.
- Full QWERTY keyboard.
- Bluetooth Wireless Technology.
- Enhanced for web browsing & data services (i.e.; wireless internet access, full HTML browser)
- Animated Graphic User Interface (GUI) display compliant with CDMA2000 1X, EVDO.
- 260K TFT LCD.
- Mobile camera (2.1 Megapixel) with flash
- Navigation Key and 27 keys aligned for more convenience.
- Sophisticated speaker handset features.
- Additional text messaging and web browsing services in addition to authentication, call forwarding, call transfer, and call waiting.

IMPORTANT INFORMATION

This Ocean user manual contains very important information about how to handle and use the product. Please read this manual thoroughly, pay attention to the warranty on the back page and be alert to the exclusions and limitations of your warranty, related to the use of unauthorized components.

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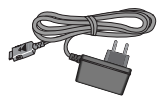
This chapter provides important information about using Ocean including:

- INSIDE THE PACKAGE
- HANDSET DESCRIPTION
- DISPLAY INDICATORS
- BATTERY USAGE
- BATTERY HANDLING INFORMATION
- MICROSD CARD USAGE

This package should include all items pictured below.
If any are missing or different, immediately contact the retailer where you purchased the cellular device.

Handset



Travel Adaptor

Battery

Manual CD

Quick Start Guide

Stereo Headset

2.5 to 3.5mm Adapter

USB Data Cable

Charm

This handset is a dual-mode CDMA2000 1X, EVDO digital handset with camera and WEB browsing capabilities. The Ocean weighs 5.61 oz. The dimensions are 4.33" x 2.20" x 0.86".

HANDSET VIEW

THE FUNCTION KEYS

(1) Download Store key - Press to access Helio Store.

(2) Display Indicators - See page 12 for a list of icons.

(3) Text & Graphic area

(4) Soft Key Indicators - Shows the functions currently assigned to each soft key and displays some icons.

(5) Left Soft Key - Press to access the main menu or function displayed on bottom line of LCD.

(6) Send Key - Press to make or receive a call. **Short Press:** Recent Calls.

(7) Clear Key - Press to clear a digit from the display or to return to the previous page.

(8) Alerts Key - Press to access Message Alert menu.

(9) OK Key

(10) Right Soft Key - Press to access contacts menu or function displayed on bottom line.

(11) End Key - Press to turn the handset on/off, to terminate a call or to return to the initial page.

(12) THE NAVIGATION KEYS
Long Press - Down for New Message, Left for Music Player and Right for Apps.
In Idle Mode - Press Up for Surf, Down for Message, Left for Video + Music and Right for Games.
Inside a Menu - Within a menu, use to scroll through menu options, or to select a function displayed on the screen.

(13) Lock Key - Press and hold to enter lock mode.

(14) International Key - A long press shall display a plus "+".

(15) Download Store key - Press to access Helio Store.

(16) Shift key - Enters upper case letters and symbols. You can either press the Shift key first and then the desired key or press both keys at the same time.

(17) Alt key - To type the number or symbol printed in orange at the top of a key, hold down the or ange-colored Alt key and then press one or more letter keys. Or, press and release the Alt key and then press a letter key.

(18) Space bar keys - Enters a space.

(19) Emoticon key - Opens a set of characters and symbols during text entry.

(20) Enter key - Starts a new line when entering text.

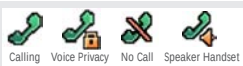
(21) Backspace key - Deletes characters.

(22) Alerts Key - Press to access Alert screen.

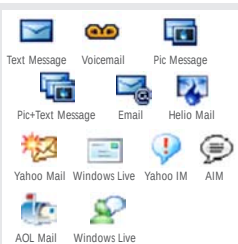
DISPLAY INDICATORS

Signal Strength
Current signal strength: the more lines, the stronger the signal.

Roaming
Handset is out of home area.



Voice Call Status
Indicates call is in progress or the handset cannot receive a signal from the system.



Message/Pic Message/ Email/Instant Message
New TEXT or voice message/ New TEXT or voice Pic message/New Email/ New Instant Message

Battery
Battery charging level – the more fill, the stronger the charge.

1X Mode
Handset is in a 1x service area.

3G Mode
Handset is operating in 3G mode.

Data Service
Indicates 1X/3G internet services access is active.

Dormant
Indicates your handset is in a dormant state during a data call. Your handset goes into Dormant mode when you have not had any activity on a page for some time - your connection is still active and you can make and receive calls.

Airplane Mode
While in Airplane Mode, your handset's standby screen will displayed.

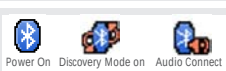
Annual Event
Annual Event is set, the idle screen appears.
The idle screen disappears if the anniversary expires or is disabled.

Alarm/Wake-up Call
Alarm/Wake-up Call is set, the idle screen appears.
The idle screen disappears if the alarm/morning call is in operation or disabled.

Ring Mode
Appears when a ringer is set as a ringer mode.

Vibrate
Handset will only vibrate when call is received.

Volume Off
Appears when a ringer volume is mute.

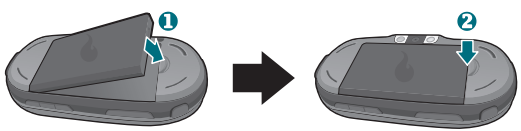


Bluetooth Icon
Indicates Bluetooth is active.

BATTERY INSTALLATION

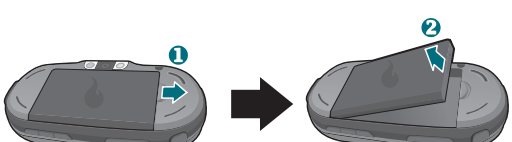
As shown in the picture below, put the metal locators of the battery into the holes located in the bottom of the unit.

1. Place the battery on the back of the handset and slide into place.
2. Push the battery down until it locks into place.



BATTERY REMOVAL

1. Pull up the release latch, lift up the battery.
2. Remove the battery from the handset.



NOTE

If the battery is not correctly placed in the compartment, the handset will not turn on and/or the battery may be detached during use.

BATTERY CHARGING

POWER CONNECTION

1. Plug the AC Charger into a standard outlet.
2. Plug the other end of the AC Charger into the bottom of your handset. The battery must be installed onto the handset.

- You cannot operate the handset until it is powered on.
- Fully charge the battery before use.
- It is more efficient to charge the battery with the handset powered off.
- The battery must be connected to the handset in order to charge it.
- Battery operating time gradually decreases over time.
- If the battery fails to perform normally, you may need to replace the battery.

BATTERY USAGE TIMES

The operating time is subject to your handset usage and configuration.

Battery Capacity	DCS	PCS
STD 1320 mAh	up to 360 Minute	up to 330 Minute

BATTERY STANDBY TIME

The operating time is subject to your handset usage and configuration.

Battery Capacity	DCS	PCS
STD 1320 mAh	up to 260 Hours	up to 300 Hours

NOTE These times are for a new battery. Usage and Standby time may decrease over time.

DO'S

- Only use the battery and charger approved by the manufacturer.
- Only use the battery for its original purpose.
- Try to keep batteries in a temperature between 41ºF (5ºC) and 95ºF (35ºC). If the battery is stored in temperatures above or below the recommended range, give it time to warm up or cool down before using.
- Completely drain the battery before recharging. It may take one to six days to completely drain.
- Store the discharged battery in a cool, dark and dry place.
- Purchase a new battery when the operating time of the current battery has decreased gradually over time.
- Properly dispose of the battery according to local laws.

DON'Ts

- Don't attempt to disassemble the battery – it is a sealed unit with no serviceable parts.
- Don't accidentally short circuit the battery by carrying it in your pocket or purse with other metallic objects such as coins, clips and pens. This may critically damage the battery.
- Don't leave the battery in hot or cold temps. Otherwise, it could significantly reduce the capacity and lifetime of the battery.
- Don't dispose of the battery into a fire.

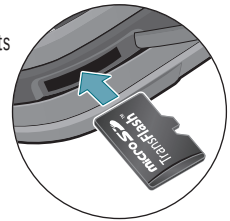
■ USING MICROSD CARD (OPTIONAL ACCESSORY)

The microSD card stores sounds, images, photos and videos, music, and other files.

INSTALLING THE MICROSD CARD

To install your microSD card, use the following steps:

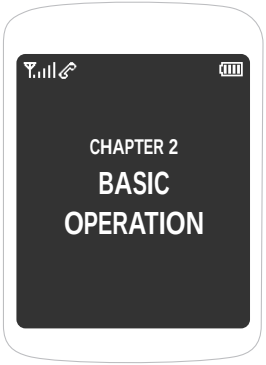
1. With the microSD card slot opened, and the gold contacts facing down, insert the microSD card into the slot.
2. Push the card in until it clicks into place.
   Close the microSD card slot.



REMOVING THE MICROSD CARD

To remove the microSD card, use the following steps:

1. Open the microSD card slot. Use your thumb to press and release the microSD card. It will pop-out to allow you to remove the card.
2. Remove the card and close the microSD card slot.



This chapter addresses and explains the basic features of your device including:

TURNING THE HANDSET ON / OFF
ACCESSING THE MENU
MENU SUMMARY
BASIC FUNCTIONS
DURING A CALL
MAKING AN EMERGENCY CALL

■ TURNING THE HANDSET ON

1. Slide the handset open, press and hold , until **"HELIO"** Logo and animation appears and the power on tone sounds.

NOTE
- If your handset is locked, enter your 4-digit password to unlock your handset when "Enter Lock Code" appears on the display.
- The default password is "0000".

■ TURNING THE HANDSET OFF

1. Slide the handset open, press and hold , until **"HELIO"** Logo and animation appears and the tone sounds.

NOTE
- Immediately change or recharge the battery when "Low Battery" appears on the display. Memory may possibly be damaged if the handset turns off due to the battery completely draining.
- Turn the handset off before removing or replacing the battery. If the handset is on, unsaved data may be lost.

Your handset can be customized via the menu. Each function can be accessed by scrolling with the Navigation Key or by pressing the number that corresponds to the menu item.

1. To access the menu in idle mode, slide the handset open, press [MENU].
2. Use the Navigation Key to scroll through the menu.
3. To return to the previous page, press .
   To exit the current menu and return to idle mode, press .
4. Press the Navigation Key and then press , to enter a function when its main page is displayed or press its assigned number to have direct access to the function.

NOTE
Hotkey
In idle mode, move the Navigation Key as follows to access these functions:
- : SURF
- : Message
- : Games
- : Video + Music

MAIN MENU	2ND DEPTH	3RD DEPTH	4TH DEPTH
1. CUSTOMIZE	1. Rings	1. Rings	
		2. Free Rings	
	2. Download Rings		
	3. Screens	1. Screens	
		2. Video Screens	
		3. Photo Album	
		4. Video Album	
		5. Free Screens	
	4. Download Screens		
	5. Settings	1. Sound	1. Ring Vibration
			2. Volume
			3. Alerts
			4. Sound Effcets
			5. Missed Calls
		2. Display	1. Overlay
			2. Banner
			3. Font
			4. Backlight
		3. Call	1. Answer Call On
			2. Auto Functions
			3. Call Forwarding
			4. Call Ignore
			5. Voice Privacy
			6. TTY
		4. Network	
		5. Device	1. Memory Info
			2. Software Info
			3. My Number
			4. Reset
			5. Mode Transition Time
		6. Security	1. Phone Lock
			2. Outside Key Lock
			3. Set Password
		7. Bluetooth	1. Power
			2. Trusted Devices
			3. Discovery Mode
			4. Find Device
			5. Device Name
		8. Language	
		9. Airplane Mode	

MAIN MENU	2ND DEPTH	3RD DEPTH	4TH DEPTH
2. SURF	1. Access Helio Portal		
3. SNAP	1. Camera		
	2. Video Camera		
	3. Photo Album	1. Default	
	4. Video Album	1. Default	
	5. Helio Album	1. Access Helio Portal	
	6. Settings	1. When Slide Closed	
		2. Call Receiving	
		3. Shutter Sound	
		4. Capture Sound	
		5. Set Storage	
		6. Viewfinder	
	7. Print Photos		
	8. Memory Info		
4. VIDEO + MUSIC	1. Video	1. Playlists	
		2. Videos	
		3. Settings	1. Sleep Timer
			2. Shuffle+Repeat
	2. Download Video		
	3. Music	1. Playlists	
		2. Artists	
		3. Albums	
		4. Songs	
		5. Genres	
		6. Settings	1. Sleep Timer
			2. Shuffle+Repeat
			3. Equalizer
	4. Download Music		
	5. Memory	1. Memory Info	
		2. Clear Memory	
5. CONTACT	New Contact		
	Edit Contact		
	Delete Contact		
	Search Contacts		
	Copy Contacts		
	Synchronize		
	Group Duplicates		
	Separate Duplicates		
	Settings		
	Email as vCard		
	Select Multiple		
	Refresh Presence		

MAIN MENU	2ND DEPTH	3RD DEPTH	4TH DEPTH
6. GAMES	Download Game		
7. PLAN	1. Calendar 2. Wake-up Call 3. Alarm 4. Calculator 5. World Time 6. Unit Converter 7. Notepad 8. Voice Memo 9. Stopwatch 0. Memory Info		
8. MESSAGE	1. Send Text/Pic 2. Send Email 3. Text/Pic Inbox 4. Helio Mail 5. Yahoo! 6. AOL 7. Windows Live 8. Gmail 9. EarthLink		
9. APPS	Download App		

MAKING A CALL

1. Slide the handset open, enter a handset number.

NOTE

To modify the handset number you have entered:
- Erase one digit at a time by pressing .
- Erase the entire number by pressing and holding .

To send a Text or Photo message to the handset number:
- Enter a part of the handset number, then press [MENU], select “Send Message”.
  Please refer to page 112 for more details on “Send Text/Pic”.

2. Press .
   The indicator, , appears on the display.

NOTE

- If “CALL FAILED” appears on the display or the line is busy, press or .
- If you activate the “AUTO REDIAL” function, the handset will automatically retry for 2 times. (Refer to page 55).
- If “Enter Lock Code” appears on the display enter your 4-digit password to unlock your handset.

3. To end a call, slide the handset closed or press .

MAKING AN INTERNATIONAL CALL

Press and hold . When “+” is displayed, enter the country and area codes, then complete the number and send the call.

■ CALLING A NUMBER FROM CONTACTS

Press [CONTACT] to access the directory.
Select the desired phone number and press .

■ ANSWERING A CALL

1. When your handset rings or vibrates, slide the handset open, press to answer the incoming call. (Depending on your handset's settings, you may also answer incoming calls by opening the handset or by pressing any number key.)

NOTE
- To silence the ringer or ignore incoming calls, press [SILENT] or then press [IGNORE].
- When you place or receive a call from stored handset numbers, both the name and handset number will be displayed.

2. To end the call, slide the handset closed or press .

■ SPEAKER PHONE

The speaker phone feature lets you hear audio through the speaker and talk without holding the handset.

To activate or deactivate the speaker phone during call, press [MENU] .

NOTE
The handset returns to normal (Speaker Phone Off) after ending a call or when the handset is turned off and back on.

■ ENTER LOCK MODE

1. To lock the handset, slide the handset open, press and hold .
2. To unlock the handset, press any function key (Except), then input your password.

■ 3-WAY CALLING

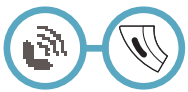
With 3-Way Calling, you can talk to two people at the same time. When using this feature, normal airtime rates will apply to the two calls.

1. Slide the handset open, enter a number you wish to call and press .
2. Once you have established the connection, enter the second number you wish to call and press .
3. When you're connected to the second party, press again to begin your 3-Way call.

NOTE
- If one of the people you called hangs up during your call, you and the remaining caller stay connected.
- If you initiated the call and are the first to hang up, all three callers are disconnected.

CALL WAITING

Notifies you of an incoming call when you are already on a call by sounding a beep tone and displaying the caller's phone number.



To answer another call while on the handset, press . This places the first call on hold. To switch back to the first caller, press again.

NOTE Call Waiting is a system dependent feature. Please contact your service provider for details.

2 SEC/HARD PAUSE

Pauses are used for automated systems (i.e., voice mail, calling cards). Insert a pause after a handset number then enter another group of numbers. The second set of numbers is dialed automatically after the pause. This feature is useful for dialing into systems that require a code.

1. To insert a pause, enter a handset number then press [MENU]. Select either a "2 Sec Pause" ("T") or a "Hard Pause" ("P").
2. Press to dial or [SAVE] to store the handset number.

NOTE Please refer to page 38 for more details about storing a handset number.

ADJUSTING VOLUME

Adjust the volume of the ringer, key beep and speaker phone.

1. Select one of the following.

- **Ring:** Controls the ringer volume.
- **Receiver:** Controls the receiver volume.
- **KeyPad:** Controls the keypad volume.
- **Effects:** Controls the effects volume.
- **Wake-up Call:** Controls the wake-up call volume.
- **Alert:** Controls the alert volume.
- **Power Up/Down:** Controls the power up/down volume.

2. Adjust volume and press [SAVE] to save it.

NOTE To adjust volume in idle mode, press side volume key.

CALLER ID

Identifies callers by displaying their phone number. If the caller's name and number are already stored in your contact list, they will both appear.

NOTE The caller ID information is stored in Call History.

USING FLASHLIGHT

This function allows you to use the handset's camera flash as a miniature flashlight. To use this function, your handset must be in standby mode.

In standby mode, press and hold .

■ MUSIC PLAYER

The Music Player is for playing files saved on your microSD Card or on the device's internal memory. To initiate playback music with the device closed, press and hold ⏯ , then last played music files will be play. Press ⏩ [FFW] or press ⏪ [FRW] to select another MP3 file. In order to stop the music player while it is playing with handset closed, it is required to open the shell and press .

NOTE The Music Player can only play MP3, AAC, or WMA files. Please consult the recorded source file for details.

■ USB CONNECTIONS

Want to download your music and video files onto your Ocean? It's easy, all you need is the USB cable included with your Ocean. First, plug one end of the USB cable into the Ocean and the other end into your computer's USB port. The icons "Helio Ocean" and "Helio Ext" (when a microSD/T-Flash card is inserted) should appear on your desktop. ("Helio Ocean" is your Internal Memory and "Helio Ext" is your External Memory.

From the idle mode on your device, press ✓ [MENU], then select from the following transfer options

1. **Helio Sync:** For Windows and Helio PC applications.
2. **Mass Storage Mode:** For Windows and OS X. Just drag and drop the media files from your hard drive into the appropriate folder inside the Helio Ocean icon or the Helio Ext icon.
3. **Video + Music Sync Mode:** To use with Windows Media Player to sync or for music subscriptions such as Yahoo! Music. Just drag and drop media files into the Helio Ocean icon.

DISCONNECTING THE USB CABLE

Once you've transferred the files you want, follow these steps to disconnect your USB cable safely and avoid corruption to your internal memory.

For PCs: At the bottom of your computer screen, click on the icon for "Safely Remove Hardware." Select the item you wish to disconnect and click "OK". Once you get a message that says "You may now remove hardware," you can remove the USB cable from the computer.

For Macs: On your desktop, find the item you wish to disconnect. Click and drag it to the "Eject" icon or eject using the Finder. Once the item has been removed from the desktop, you can remove the USB cable from the computer.

NOTE If your music files appear to be corrupted, then you'll have to reformat the internal memory. Here's how:

1. Back up all the content in your internal memory using Mass Storage Mode.
2. Press ✓ [MENU]
3. Select 4 [Video + Music]
4. Select 5 [Memory]
5. 2 [Clear Memory]
6. 1 [Internal Memory]
7. 2 [All Media + Licenses]

■ CALL HISTORY

Displays information about All Calls, Missed Calls, Incoming Calls, Outgoing Calls and Ignored calls.

1. Press .
2. To see a list of the 40 most recent All Calls, Missed Calls, Incoming Calls, Outgoing Calls and Ignored calls. If the number is already stored in your contact list, only the name appears. If the number is not stored, only the phone number appears.

NOTE If you are in call historys, you may also navigate to the next or previous call historys (All Calls, Missed Calls, Incoming Calls, Outgoing Calls and Ignored calls) by pressing the Navigation Key right or left.

3. Press [MENU] to save a selected number or press [MESSAGE] to send a message.

- **Save:** To save the number to a contact list.
- **Delete:** To delete a call history.
- **Delete All:** To delete all call historys.
- **Time List:** To see log of all times of specific caller.

4. To view details, press . To access options, press [MENU].

- **Delete:** To delete a call history.
- **Time List:** To see log of all times of specific caller.

NOTE Call details include type of call, date, time and phone number.

■ AVAILABLE OPTIONS DURING A CALL

To display menu options during a call, press [MENU].

CONTACTS

To search or save the handset number in your contacts list.

Press [MENU] 1.

CALL HISTORY

To displays the list of call history.

Press [MENU] 2.

SPEAKER ON (OFF)

Activates the speaker phone when you are on a call. The handset returns to normal (speaker phone off) after ending a call or when the handset is turned off and back on.

Press [MENU] 3.

3-WAY CALL

To call a second party during a call, dial the number or select it from the directory by accessing the menu during a call.

Press [MENU] 4.

SEND MESSAGE

Enables you to send a message (SMS) during a call.

Press [MENU] 5 JKL.

MY NUMBER

Enables you to see your handset number while on a call.

Press [MENU] 6 MNO.

RECORD CALL

Records the conversation for up to three minutes during a call. DO NOT record any calls unless you have informed all the parties in the call that you are recording the conversation. Not informing all the parties that a call is being recorded may be illegal.

Press [MENU] 7 PQRS.

This 911 feature puts the handset in the Emergency Call Mode when you dial the preprogrammed emergency number, 911. It also operates in the lock mode and out of the service area.

911 IN LOCK MODE

The 911 call service is available even in the lock mode.

1. Enter “911” and press .
2. The call connects.

When the call ends, the handset returns to the Lock Mode.

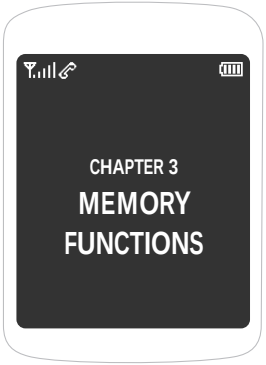
911 USING ANY AVAILABLE SYSTEM

The 911 call service is available even in the lock mode.

1. Enter “911” and press .
2. The call connects.

While the handset is in the emergency mode for 5 minutes, the handset can receive an incoming call from any available system. However it can’t make a call.

MEMO



This chapter addresses memory functions including:

STORING A PHONE NUMBER
ENTERING LETTERS, NUMBERS & SYMBOLS
MAKING A CALL FROM THE PHONE BOOK

STORING A HANDSET NUMBER

The contact list stores up to 4500 entries (2500 Helio, 1000 Yahoo!, and 1000 AOL)."

1. Slide the handset open, enter handset # then press [SAVE], and then choose "New Contact" or "Existing Contact". Press to select.
2. If "New Contact" is selected, enter a contact edit window. Press with up or down Navigation Key to choose the type of number you're adding, then press . If "Existing Contact" is selected, your contact list is displayed. Choose the entry to add the handset number to, then press [SELECT]. Press with up or down Navigation Key to choose the type of number you're adding, then press .
3. Enter a name.
   Please refer to page 39 for more details on entering letters, numbers & symbols.
   To change the input mode, press [Abc].
   Press the Navigation Key down to select other options.

   - **Contact Field:** First Name, Last Name, Graphic, Phone Number 1 ~ 6, Ring, Default Number, Email, Instant Message, MySpace, Notes, Group.
   - **Phone Number Type:** Mobile, Home, Work, Fax, Mobile2, Other.
   - Press [Add...] to add additional details for the Contact such as more Email addresses, Street Address, Nickname, Title, Company, Department, or Website.

4. To store the entry, press [SAVE].
   "Save Contact?" and then press [YES].

ENTERING LETTERS, NUMBERS & SYMBOLS

The input mode (T9 editor) will automatically be activated when necessary to enter letters and numbers. As shown below, there are 5 available modes ; Standard input mode (Abc), T9Word input mode (T9abc), Numeric mode (123), Symbol mode (Sym) and Korean mode (Korean).

The input mode indicator appears on the below right of the display when letters and numbers are entered. To select the desired input mode among the 5 modes below, press [Abc] repeatedly, then enter letters and numbers.

The following illustrates the function assigned to each key in the Alpha Editor.

KEY	FUNCTION
	Abc Press repeatedly to change mode. [abc][T9abc][123][Sym][Korean]
	Next Press to view the next matching word if the highlighted word is not the word you intended.
	Space Press to accept a word and add a space.
	Shift Press to select a letter case of the standard text input or T9 text input mode. [Abc], [ABC] and [abc] indicate the standard text input. [T9Abc], [T9ABC] and [T9abc] indicate the predictive text input. Press to change mode.
	Clear Press to delete a character to the left of the cursor.

STANDARD INPUT MODE

Use the number keys to enter letters, numbers and characters.

1. Enter letters using the key pad as follows:

Key Pad	Press 1 Time	Press 2 times	Press 3 times	Press 4 times	Press 5 times
2ABC	A	B	C	2	A
3DEF	D	E	F	3	D
4GHI	G	H	I	4	G
:	:	:	:	:	:
9WXYZ	W	X	Y	Z	9

   Press 1 repeatedly, until the desired symbol appears (. , - ? ! ' @ : 1). To change the input mode, press * [Abc] repeatedly.

2. To enter a space, press 0 . The cursor will automatically move to the next column.
3. Repeat until letters are entered.
4. To delete one digit, press C.
   If you press and hold C, it will delete characters quickly.
5. To change from lowercase to uppercase, press # .

T9WORD INPUT MODE

The T9Word input mode incorporates a built-in-dictionary to determine a word based on the entered characters. A T9Word can be entered more quickly by pressing a key once per character.

1. Press * [Abc] repeatedly, until "T9abc" mode is displayed.
2. Press a digit key once to enter the character you want then enter all the characters to input the word you want.
3. To view the next matching word, press 0 .
4. To accept the matching word and enter a space, press 1 .

NOTE

To enter a compound word:

- Enter the first part of the word then press → to accept it.
- Enter the last part of the word then press 1 to enter the word.

NUMERIC MODE

Allows you to enter numbers.

1. Press [Abc] repeatedly, until "123" mode is displayed.
2. To enter a number, press a digit key.

SYMBOL MODE

Allows you to enter symbols.

1. Press [Abc] repeatedly, until "Sym" mode is displayed.
2. Select the symbol you want to enter by pressing the corresponding digit key.

Use the Navigation Key to view a different set of symbols. There are 8 sets of symbols.

KOREAN MODE

Allows you to enter Korean characters.

1. Press [Abc] repeatedly, until "Korean" mode is displayed.
2. To enter Korean characters, press a keypad.

USING QWERTY KEYBOARD

Your device has a specifically designed QWERTY keyboard that provides a superior typing experience on a small handheld for easy and comfortable input. You can use all of the handset functions with the keyboard either closed or open. When you open the keyboard you have the extra benefit of a full messaging keyboard.

The handheld includes a fully-functional QWERTY keyboard you can use to compose text for email messages, notes, and so on.

KEY	FUNCTION
Shift + letter	To type upper-case letters, hold down the Shift key and then press one or more letter keys. Alternatively, press and release the Shift key and then press a letter key. To write in upper case only, press the Shift keys twice [Shift Lock].
Alt + letter	To type the number or symbol printed in orange at the top of a key, hold down the red-colored Alt key and then press one or more letter keys. Alternatively, press and release the Alt key and then press a letter key. To write in number or symbol printed in orange at the top of a key only, press the Alt keys twice [Alt Lock].
Space Key	Press the Space key to type a blank space.
Enter Key	Press the Enter key to insert a carriage return.
Clear Key	Press the Delete key to delete a character to the left of the text cursor.
Emoticon Key	To insert a emoticon in the text mode.

NOTE For best performance in low-light environments, your handset includes a backlight feature that can illuminate both the display and the keyboard so you can keep reading and typing.

■ ONE-TOUCH/TWO-TOUCH DIALING

Ideal for frequently dialed numbers, this feature allows phone book entries to be dialed via the keypad with only one or two key presses.

ONE-TOUCH DIALING:

1~9: Press and hold the corresponding memory number for more than 1 second.

TWO-TOUCH DIALING:

10~99: Press the first digit and second digits of the memory number short and long respectively.

NOTE Press [1 ∞] is used for One-Touch voicemail dial feature.

This chapter addresses accessing the menu and using its functions and features to customize your handset.

CUSTOMIZE
SURF
SNAP
VIDEO+MUSIC
CONTACT
GAMES
PLAN
MESSAGE
APPS

From the Customize menu, press [MENU] to access the Settings menu, press [PLAY/STOP] to access the Bluetooth menu.

RINGS

You can select a ring that will play when receiving a call. You can select from downloaded rings as well as the default rings.

1. Press [MENU] 1 .7@ 1 .7@.
2. To select your desired ring.
   - **Rings:** Select a live or downloaded ringtone.
   - **Free Rings:** Select from the default ringtones.
3. To play a ring, press [PLAY/STOP]. Press [MENU], select one of the following options.
   - **Delete:** Delete the selected live ring.
   - **Delete All:** Delete all contents in the live ring list.
   - **File Info:** Display the selected live ring information.
4. To save it, press [SET].

DOWNLOAD RINGS

Connects directly to the Helio Store, where you can download rings.

1. Press [MENU] 1 .7@ 2 ABC.
2. Connecting to Helio Service.

SCREENS

Select the screen displayed in idle mode. In addition to the default images, you can select a downloaded image, Video Screen, Photos or Video Recordings as your screen.

1. Press [MENU] 1 .7@ 3 DEF.
2. To select your desired screen.
   - **Screens:** Select from downloaded screens.
   - **Video Screens:** Select a Video Screen.
   - **Photo Album:** Select from saved taken images.
   - **Video Album:** Select from saved taken video clips.
   - **Free Screens:** Select from the default screens.
3. If “Photo Album or Video Album” selected, press [VIEW/PLAY]. Press [MENU], select one of the following options.
   - **Delete:** Delete the selected content.
   - **Delete All:** Delete all contents in the content list.
   - **Rename:** Rename the selected content.
   - **Lock/Unlock:** Lock/Unlock the selected content.
   - **Sort Files:** Sort the content list.
   - **File Info:** Display the selected content information.
4. To save it, press [SET].

■ DOWNLOAD SCREENS

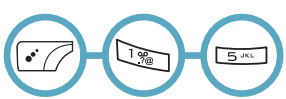
Connects directly to the Helio Store, where you can download screens.

❶ Press [MENU] 1 4 GHI.

❷ Connecting to Helio Service.

■ SETTINGS

Customizes your handset and optimizes performance through a variety of settings.



SOUND

Sets Ring Vibration, Volume, Alerts, Sound Effects and Missed Calls.

RING VIBRATION

To select a Ring Vibration Mode:

① Press [MENU] 1 5 JKL 1 1 .

② To set your desired ring vibration mode.

- Ring Only
- Vibration
- None
- Vib then Ring
- Vib + Ring

③ To save, press [SET].

VOLUME

Controls the Ring Volume, Receiver, KeyPad, Effects, Wake-up Call, Alert and Power Up/Down volume.

① Press [MENU] 1 5 JKL 1 2 ABC.

② To set your desired Vibration Mode.

- **Ring:** Off / Level 1 ~ 5.
- **Receiver:** Level 1 ~ 5.
- **KeyPad:** Off / Level 1 ~ 5.
- **Effects:** Off / Level 1 ~ 5.
- **Wake-up Call:** Off / Level 1 ~ 5.
- **Alert:** Off / Level 1 ~ 5.
- **Power Up/Down:** Off / Level 1 ~ 5.

③ To save, press [SAVE].

ALERTS

To setting an Alerts ringer type:

① Press [MENU] 1 5 JKL 1 3 DEF.

② To setting an Alerts ringer type.

- **Call Connection:** To set Call Connection ring tone with left or right Navigation Key. (Call Connection, Off)
- **Minute Notification:** To set Minute Beep ring tone with left or right Navigation Key. (Bell, Off)
- **No Service:** To set Out-of-service ring tone with left or right Navigation Key. (Off, Bell1, Bell2, Bell3)
- **Low Battery:** To set Battery Low ring tone with left or right Navigation Key. (Off, Low Battery1, Low Battery2, Low Battery3)

③ To save, press [SAVE].

SOUND EFFECTS

To select a sound effects ringer type:

① Press [MENU] 1 5 1 4 .

② To set your desired sound effects ringer type.

- **Keypad:** To set key tone with left or right Navigation Key. (Off, KeyClick, LeoClick, Tick, Arp, Henry)
- **Slide:** To set Slide tone with left or right Navigation Key. (Off, Mambo1 ~ Mambo5, Helio)
- **Menu:** To set menu select tone with left or right Navigation Key. (Off, On)
- **Confirm/Save:** To set Confirm/Save select tone with left or right Navigation Key. (Off, Confirm/Save1 ~ Confirm/Save4)
- **Cancel/Warning:** To set Cancel/Warning select tone with left or right Navigation Key. (Off, Cancel/Warning1 ~ Cancel/Warning4)
- **Silent Mode:** To set Silent Mode select tone with left or right Navigation Key. (Off, On)

③ To save, press [SAVE].

MISSED CALLS

To set a Missed Calls options:

SET ALERT

① Press [MENU] 1 5 1 5 1 .

② To select alarm set mode with up or down Navigation Key.

Mute / Every 2min / Once after 2min

③ To save, press [SET].

ALERT TYPE

① Press [MENU] 1 5 1 5 2 .

② To select alarm tone with up or down Navigation Key.

Alert Sound / Vibration

③ To save, press [SET].

DISPLAY

To select images to display on the main LCD:

OVERLAY

To select a Overlay Mode:

CALENDAR / CLOCK

① Press [MENU] 1 5 2 1 1 .

② To select Calendar / Clock set mode with up or down Navigation Key. You want to preview mode, press [PREVIEW].

1mo Calendar 1 ~ 1mo Calendar 5, 2mo Calendar 1 ~ 2mo Calendar 4, Digital Clock 1 ~ Digital Clock 4, Analog Clock 1 ~ Analog Clock 4, None

③ To save, press [SET].

DUAL CLOCK

① Press [MENU] 1 5 2 1 2 .

② The world map appears with the city, its date and time, and then select city with Navigation Key.

- Left or Right Navigation Key: Move to city's location.
- Up or Down Navigation Key: Move to city's name.

③ To save, press [SET].

ANIMATED STICKER

① Press [MENU] 1 5 2 1 3 .

② To select Animated Sticker image with the Navigation Key.

None, Animated Sticker 1 ~ Animated Sticker 12

③ To save, press [SET].

BANNER

To select a Banner Mode:

① Press [MENU] 1 5 2 2 .

② To select Banner set mode with up or down Navigation Key. You want to preview mode, press [PREVIEW].

- **Banner:** To select Banner with left or right Navigation Key. (Off, On)
- **Text:** To enter a banner. (Default-Helio)
- **Font Color:** To select a banner color with left or right Navigation Key.

③ To save, press [SAVE].

FONT

To select a Font Mode:

① Press [MENU] 1 5 2 3 .

② To select Font set mode with up or down Navigation Key.

1. English: Type1 / Type2
2. Korean: Type1 / Type2

③ To save, press [SET].

BACKLIGHT

Backlights the LCD, while the slide is closed and keypad light for easy viewing in dark places.

① Press [MENU] 1 5 2 4 .

② To select Backlight set mode with up or down Navigation Key.

1. Display Duration: 15sec, 30sec, 1min, 3min, 10min
2. Display Brightness: Level 1 ~ Level 5
3. Keypad Duration: Slider Open, 15sec, 30sec, 60sec, Off

③ To save, press [SET].

CALL

Allows you to customize the call options.

ANSWER CALL ON

To select an answer call option:

① Press [MENU] 1 5 3 1 .

② Select one of the following options with up or down Navigation Key.

- **Slide Open**
- **Open + Any Key**
- **Open + Send Key**
- **Send Key Only**

③ To save, press [SET].

AUTO FUNCTIONS

To select an auto function option:

① Press [MENU] 1 5 3 2 .

② Select one of the following options with up or down Navigation Key.

1. **Auto Redial:** Automatically redials a call up to a set time interval. (On, Off)
2. **Auto Headset:** If headset is connected, call is automatically connected. (On, Off)
3. **AutoRcv After 2sec:** After 2 seconds, call is automatically connected. (On, Off)

③ To save, press [SET].

CALL FORWARDING

The device can divert all incoming calls to another number with this feature (network dependent). To activate call forwarding:

① Press [MENU] 1 5 3 3 .

② Select one of the following options with up or down Navigation Key.

1. On/Off: To select "On" or "Off" with Navigation Key.
2. Set Number: Input a new call forwarding number.

③ To save, press [SET].

CALL IGNORE

To setup options to ignore incoming and/or outgoing calls or specific lists of callers to ignore:

① Press [MENU] 1 5 3 4 and enter your password.

② Select one of the following options with up or down Navigation Key.

- **Outgoing Call:** To select "On" or "Off" with Navigation Key.
- **Incoming Call:** To select "On" or "Off" with Navigation Key.
- **Contacts:**
  - Block List: Press [ADD], to add blocked phone number (Enter Number, Contacts, Call Log). To delete blocked handset number, press [MENU], then select "Remove" or "Remove All".
  - Block Setting: To select "On" or "Off" with Navigation Key.

③ To save, press [SET].

VOICE PRIVACY

Enhances voice privacy and avoids tapping during a call.

① Press [MENU] 1 5 3 5 .

② Select "On" or "Off" with up or down Navigation Key.

③ To save, press [SET].

TTY

To turn TTY Mode on or off:

① Press [MENU] 1 5 3 6 .

② Select one of the following options with up or down Navigation Key.

- **TTY Full**
- **TTY+Talk**
- **TTY+Hear**
- **TTY Off**

③ To save, press [SET].

NETWORK

To select a network mode option:

① Press [MENU] 1 5 4 .

② Select "1X only" or "EVDO mode" with up or down Navigation Key.

③ To save, press [SET].

DEVICE

Displays the following information about your handset: Memory Info, S/W Version, My Number, resets handset to default settings and Mode Transition Time.

MEMORY INFO

To view “Internal“ or “External“ memory information.

① Press [MENU] 1 5 5 1 .

② Select “Internal Memory” or “External Memory” with left or right Navigation Key.

③ To return to the previous page, press [OK].

SOFTWARE INFO

Displays the software version of your handset:

① Press [MENU] 1 5 5 2 .

② The software version appears.

③ To return to the previous page, press [OK].

MY NUMBER

Displays the handset number of your handset:

① Press [MENU] 1 5 5 3 .

② The my handset number appears.

③ To return to the previous page, press [OK].

RESET

Resets contacts or handset to default settings.

① Press [MENU] 1 5 5 4 .

② Select “Delete Contacts” or “Default Reset” with the Navigation Key.

③ Enter your password.
(The default password is “0000”.)

④ Read the message. (Reset?/Reset to Default Settings?)

⑤ Press [NO] or [YES].

MODE TRANSITION TIME

When closing (Portrait) slide or QWERTY slide, The process shall be continued for user's setting time.

① Press [MENU] 1 5 5 5 .

② Select “Mode Transition Time” with up or down Navigation Key.

- 5sec
- 10sec

③ To save, press [SET].

SECURITY

Prevents unauthorized use of your handset. The following settings can be restricted:

PHONE LOCK

Prevents the handset from being used without entering the password first.

① Press [MENU] 1 5 6 and enter your password.
(The default password is “0000”.)

② Press 1 “Phone Lock”.

③ Select “Lock Now”, “Lock at Power Up” or “Unlock” with up or down Navigation Key.

- **Lock Now:** Lock the handset now.
- **Lock at Power Up:** Not locked, but it is automatically locked when power is cycled.
- **Unlock:** Do not lock the handset.

④ To save, press [SET].

OUTSIDE KEY LOCK

Prevents the press key without entering the password first.

① Press [MENU] 1 5 6 and enter your password.
(The default password is “0000”.)

② Press 2 “Outside Key Lock”.

③ Select “On” or “Off” with up or down Navigation Key.

④ To save, press [SET].

SET PASSWORD

To changes your 4-digitpassword.

① Press [MENU] 1 5 6 and enter your password.
(The default password is “0000”.)

② Press 3 “Set Password”.

③ Enter your password.
(The default password is “0000”.)

④ Enter a new password and down Navigation Key.

⑤ Enter the new password again and press [SAVE].

BLUETOOTH

Your handset is compatible with devices that support the Bluetooth heaset (HSP), hands-free(HFP), Advanced Audio Distribution(A2DP), and Audio/Video Remote Control(AVRCP) profiles. You may create and store 30 pairings within your handset and connect to one device at a time. The approximate communication range for Bluetooth wireless technology is up to 30 feet (10 meters).

NOTE You can use “Stereo Headset” when playing video clips or music files.

Your handset is a Bluetooth V1.2 compatible device. This means you can use Bluetooth V1.2 headsets and Bluetooth V1.0 hands-free devices with your handset.

NOTE **TRANSFERRING AUDIO**

When a Bluetooth audio device is connected, To Bluetooth / To Device is displayed in the menu during calls.

- **To Bluetooth:** Sound comes from the Bluetooth audio device.
- **To Device:** Sound comes from the handset.

POWER

The Power feature allows you to turn the Bluetooth function on and off.

① Press [MENU] 1 5 7 1 .

② Select “On” or “Off” then press [SET] to save it.

NOTE To extend battery life, set Bluetooth power to “Off” when not in use. If you turn Bluetooth power “Off”, your phone will not connect to accessories until you turn Bluetooth power “On” and reconnect to the accessories.

TRUSTED DEVICES

Trusted Device List is a list of the devices that have paired with your handset via the Bluetooth functionality. Select the name of a device to enable it to work with your handset.

① Press [MENU] 1 5 7 2 .

② Display listing all Bluetooth wireless technology devices currently registered on your device.

- **By pressing [MENU], you can choose from the following:**
  1. Rename: To rename selected device.
  2. Remove: To erase selected device.
  3. Device Info: To view device information.

DISCOVERY MODE

When Discovery Mode is on, other Bluetooth devices inthe area can find your handset.

① Press [MENU] 1 5 7 3 .

② Select “On for 60sec” or “Off” then press [SAVE] to save it and wait in the idle mode.

NOTE
1. After 60 seconds, the handset returns to discovery mode “Off”.
2. If my handset is in discovery mode on, remote bluetooth devices can scan my handset.

FIND DEVICE

Find Device allows you to scan for remote bluetooth devices from the handset.

① Press [MENU] 1 5 7 4 .

DEVICE NAME

Device Name allows you to change the name of a Bluetooth device that is listed in your handset so you can more readily recognize which device you want to enable.

① Press [MENU] 1 5 7 5 .

② Enter a new name, press [OK] to save it.

LANGUAGE

Selects the language in which letters are displayed on screen.

❶ Press [MENU] 1 5 8 .

❷ Select either “English” or “Korean” with up or down Navigation Key.

❸ To save, press [SET].

AIRPLANE MODE

Airplane Mode allows you to use many of your handset’s features, such as Games, Voice Memos, etc., when you are in an airplane or in any other area where making or receiving calls or data is prohibited. When your handset is in Airplane Mode, it cannot send or receive any calls or access online information.

❶ Press [MENU] 1 5 9 .

❷ Select “On” or “Off” with up or down Navigation Key.

❸ To save, press [SET].

From the SURF menu, press to access the Bookmarks menu, press to access the Last menu.

■ ACCESS HELIO PORTAL

Now you can access news, sports, weather, and email from your handset. Accessing Mobile Web keeps you updated by providing access to up-to-date information such as news, sports, weather and stock quotes when you subscribe to Internet service with your service provider. Please contact your service provider for a list of available websites and service details.

■ GO

Easy access to enter a URL to visit. Just type the site name, we've already filled in "www" and will automatically enter ".com" to make it easy. See and select from your most recent entered sites as well.

■ BROWSER MENU

The browser menu contains various browser options. To access the browser menu, press [MENU] 2 ABC or press .

BOOKMARKS

Bookmarks allow you to store the address of your favorite Web sites for easy access at a later time.

1. ADD

When "Add" is selected from the Browser Menu, it allows you to save the recent Web site address.

2. VIEW ALL

When "View All" is selected from the Browser Menu, allows you to view and access bookmarked sites.

1. **Music:** To launch Helio Music web site.
2. **Videos:** To launch Helio Videos web site.
3. **Games:** To launch Helio Games web site.
4. **Rings:** To launch Helio Rings web site.
5. **Screens:** To launch Helio Screen web site.
6. **Helio Album:** To launch Helio UP Album web site.

VIEW

1. FIT TO SCREEN / SHOW ACTUAL SIZE

Select "Fit To Screen" or "Show Actual Size" to display screen mode.

2. SHOW MINI MAP / HIDE MINI MAP

Select "Show Mini Map" or "Hide Mini Map" to show/hide mini map.

3. TEXT ONLY / TEXT AND IMAGES

Select "Text Only" or "Text and Images" to toggle images displayed on web site.

4. ZOOM

Select “50% ~ 200%” to display zoom with press , , left or right Navigation Key, then press .

5. IMAGES

Select “50% ~ 200%” to image zoom with left or right Navigation Key, then press .

6. IMAGE LIST

To display images list.

7. VIEW CERTIFICATE

Displays security certificate information for the secure web sites when available.

SEARCH

1. SEARCH

Navigates to the Helio search page.

2. FIND IN PAGE

To find words or phrases in a current web site.

3. INSERT MOBILE NUMBER

Insert Mobile Number from Contacts in a text entry field.

4. REFRESH

To reload the current content.

5. SAVE SCREEN

Capture Screenshot.

6. GO BACK

Navigates up a level in the history list.

7. GO FORWARD

Navigates to the next page in the history list. This is only available if you have navigated backward in the history.

8. SETTINGS

- **Cookies:** Selecting “DELETE” to erase all saved cookies.
- **Cache:** Selecting “EMPTY” to empty cache memory.
- **History:** Selecting “CLEAR”to erase all history lists.
- ☐ **Auto-Complete:** Press to check it.
- **Scrolling Mode:** Selecting “Scrolling Mode” allows the user to select between time-square scrolling. Scrolling mode choices are Line by Line, Half Page, Full Page.
- **Font Size:** Selecting “Font Size” allows the user to select displayed Font Size. Font Size choices are Large (21px), Small (18px).
- **Reset:** Selecting “Reset” to all setup options are reset to factory default settings.

To save, press [SAVE].

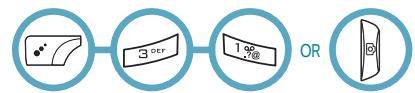
HISTORY

Keeps a list of links to your most recently visited sites. The history list is available from the Browser Menu and the user may delete all stored pages from the history (Stores up to 50 sites). To navigate to a site, highlight it and press , to connect web site.

From the SNAP menu, press to access the Album menu, press to access the Camera menu.

CAMERA

Taking pictures with your handset's built-in camera is as simple as choosing a subject, pointing the lens, and pressing a button. You can activate the Camera Mode and take pictures when the handset is open.



TAKING A PHOTO THROUGH THE MENU

1. Press [MENU] .
2. Point the camera lens at your subject. You can check the photo framing through the main display screen.
3. Press [SNAP] or the side camera button to take the photo.
4. To save the picture, press [SAVE].
   The picture will be saved in "Photo Album".
   To go back to idle mode without saving the picture, press .
   To send the picture to someone, press [SEND].
5. Press [MENU] to access the taken picture's other options.

- **Send Message:** To send a picture message.
- **Send Email:** To send a email.
- **Helio UP:** To upload picture to Helio Screen web site.
- **Set As Screen:** To assign to display for idle screen.
- **Set As Contact Pic:** To assign to display for contact's ID.

TAKING A PHOTO IN IDLE MODE

1. Slide the handset open, press and hold to activate Camera Mode.
2. Point the camera lens at your subject.
   You can check the photo framing through the main display screen.
3. Press [SNAP] or the side camera button to take the photo.
4. To save the picture, press [SAVE].
   The picture will be saved in “Photo Album”.
   To go back to idle mode without saving the picture, press .
   To send the picture to someone, press [SEND].
5. Press [MENU], to access the taken picture’s other options.

- **Send Message:** To send a picture message.
- **Send Email:** To send a email.
- **Helio UP:** To upload picture to Helio Screen web site.
- **Set As Screen:** To assign to display for idle screen.
- **Set As Contact Pic:** To assign to display for contact’s ID.

CAMERA MODE OPTIONS

When the handset is open and in Camera Mode, several user options are available.

WHITE BALANCE

Press to directly adjust the white balance. (Auto, Outside, Cloudy, Fluorescent, Bulb)

FLASH

Press to directly adjust the flash option. (Auto, Off, On).

BRIGHTNESS

Press the Navigation Key left or right to directly adjust the brightness. The current brightness level appears at the bottom of the display screen.

ZOOM

Press the Navigation Key up or down to change the magnification. The current zoom level appears at the right side of the display screen. (Not supported when the resolution is set to 1600X1200)

ALBUM

Press [ALBUM] to view all the pictures you have taken. Only the pictures in “Photo Album” can be viewed.

UNDER [MENU] - 1. Camera Mode

To select a camera mode. (Photo, Video)

UNDER [MENU] - 2. Shot Mode

To select a Shot Mode. (Single, Auto Series 4cuts, Auto Series 6cuts, Auto Series 9cuts). If you taking a picture with the handset closed, to select a Shot Mode. (Single, Auto Series 4cuts, Auto Series 6cuts, Auto Series 9cuts, Split Series 4cuts, Split Series 9cuts, Split Series 16cuts)

UNDER [MENU] - 3. Resolution

To select a resolution for a picture.
(320X240, 240X320, 240X180)
If you taking a picture with the handset closed, to select a resolution for a picture. (1600X1200, 1280X960, 1024X768, 800X600, 640X480, 320X240, 240X320, 240X180)

UNDER [MENU] - 4. Quality

To select a picture quality. (Super Fine, Fine, Normal)

UNDER [MENU] - 5. White Balance

To select a white tone balance. (Auto, Outside, Cloudy, Fluorescent, Bulb)

UNDER [MENU] - 6. Flash

To activate the flash function. (Off, On, Auto)

UNDER [MENU] - 7. Timer

To activate the camera's timer function.
(Off, 5sec, 10sec)

UNDER [MENU] - 8. Effects

To select picture effects. (Normal, Gray, Sepia, Negative, Solarze)

UNDER [MENU] - 9. Photo Frame

To select a resolution for a picture.
(No Frame, Heart 1, Beach, Hero) Supported when the resolution is set to 240X180.

*UNDER [MENU] - *. Storage*

To activate the storage function. (Internal, External)

UNDER [MENU] - #. Preview Mode

To activate the preview mode function. (Indicators Only, Indicators + Crosshair, Crosshair Only, Hide All)

1. Press [SAVE] to save camera option.

■ VIDEO CAMERA

Taking videos with your handset's built-in camera is as simple as choosing a subject, pointing the lens, and pressing a button. You can activate the Camera Mode and take videos when the handset is open.

1. Press [MENU] 3 DEF 2 ABC.
2. Point the camera lens at your subject. You can check the video framing through the main display screen.
3. Press or the side camera button to record the video.
4. To stop recording, press or .
   To Pause/Resume recording, press [PAUSE/RESUME].
4. To save the video, press [SAVE].
   The picture will be saved in "Video Album".
   To go back to idle mode without saving the picture, press .
   To replay video, press [REVIEW].
5. Press [MENU], to access the taken video's other options.

- **Send Message:** To send a picture message.
- **Send Email:** To send a email.
- **Helio UP:** To upload video to Helio Screen web site.
- **Set As Screen:** To assign to display for idle screen.

VIDEO MODE OPTIONS

When the handset is open and in Video Mode, several user options are available.

WHITE BALANCE

Press to directly adjust the white balance. (Auto, Outside, Cloudy, Fluorescent, Bulb)

FLASH

Press to directly adjust the flash option. (Off, On).

ALBUM

Press [ALBUM] to view all the videos you have taken.

BRIGHTNESS

Press the Navigation Key left or right to directly adjust the brightness. The current brightness level appears at the bottom of the display screen.

ZOOM

Press the Navigation Key up or down to change the magnification. The current zoom level appears at the right side of the display screen.

UNDER [MENU] - 1. Camera Mode

To select a camera mode. (Photo, Video)

UNDER [MENU] - 2. Recording Type

To select a video recording type.
(Normal, MMS Movie, Idle Screen Movie)

UNDER [MENU] - 3. Resolution

To take a video which can be sent as a Pic Message, ensure resolution is set at 176x144.

UNDER [MENU] - 4. Quality

To select a video quality. (High, Standard, Economy)

UNDER [MENU] - 5. White Balance

To select a white tone balance. (Auto, Outside, Cloudy, Fluorescent, Bulb)

UNDER [MENU] - 6. Flash

To activate the flash function. (Off, On)

UNDER [MENU] - 7. Timer

To activate the camera's timer function.
(Off, 5sec, 10sec)

UNDER [MENU] - 8. Storage

To select a saved video location. (Internal, External)

UNDER [MENU] - 9. Preview Mode

To activate the preview mode function. (Indicators Only, Indicators + Crosshair, Crosshair Only, Hide All)

1. Press [SAVE] to save video option.

PHOTO ALBUM

In Review Mode you can view all the pictures you have taken, store selected images in your handset, send pictures to the Helio Album with Helio UP, delete images and access additional picture options.

1. Press [MENU] 3 DEF 3 DEF.
2. Select saved Photo's Folder.
   To access floder's options, press [MENU].
   - **Rename:** To rename a selected folder.
   - **Lock Folder/Unlock Folder:** To lock/unlock the selected folder.
   - **Add Folder:** To add a new folder.
   - **Delete Folder:** To delete a selected folder.
3. In Review Mode, you can view all the pictures you have stored in folder.
4. Select the picture with the Navigation Key and then press [VIEW] or press [CHECK/UNCHECK].

5. To access options, press [MENU].
   - **Send Message:** To send a picture message.
   - **Send Email:** To send a email.
   - **Helio UP:** To upload picture to Helio Screen web site.
   - **Set As Screen:** To assign to display for idle screen.
   - **Set As Contact Pic:** To assign to display for contact's graphic image.
   - **Copy:** To copy the selected picture to the other saved location or folders.
   - **Move:** To move the selected picture to the other saved location or folders.
   - **Delete:** To delete the current picture from your folder.
   - **Rename:** To edit or rename the picture's title.
   - **Lock/Unlock:** To lock/Unlock the selected picture.
   - **Check All:** To check all pictures.
   - **Sort Files: -** Sort by (Date, Name, Size)
     - Sort order (Descending, Ascending)
   - **File Info:** Displays information of the selected picture.

VIDEO ALBUM

In Review Mode, you can view all the videos you have taken, store selected videos in your handset, send videos to the Online Album, delete videos and access additional video options.

1. Press [MENU] 3 DEF 4 GHI .
2. Select saved Video's Folder.
   To access floder's options, press [MENU].

   - **Rename:** To rename a selected folder.
   - **Lock Folder/Unlock Folder:** To lock/unlock the selected folder.
   - **Add Folder:** To add a new folder.
   - **Delete Folder:** To delete a selected folder.

3. In Review Mode, you can view all the videos you have stored in folder.
4. Select the video with the Navigation Key and then press [PLAY] or press [CHECK/UNCHECK].

5. To access options, press [MENU].

   - **Send Message:** To send a picture message.
   - **Send Email:** To send a email.
   - **Helio UP:** To upload video to Helio Screen web site.
   - **Set As Screen:** To assign to display for idle screen.
   - **Copy:** To copy the selected video to the other saved location or folders.
   - **Move:** To move the selected video to the other saved location or folders.
   - **Delete:** To delete the current video from your folder.
   - **Rename:** To edit or rename the video's title.
   - **Lock/UnLock:** To lock/unlock the selected video.
   - **Check All:** To check all videos.
   - **Sort Files: -** Sort Type (Date, Name, Size)
     - Sort Order (Descending, Ascending)
   - **File Info:** Displays information of the selected video.

HELIO ALBUM

Helio Album allows you to upload photos from photo album by sending pictures messages using Navigation Up Key to your Helio Album.

1. Press [MENU] 3 DEF 5 JKL .
2. Connecting to Helio Service.

SETTINGS

To select your camera settings:

1. Press [MENU] 3 DEF 6 MNO.

   - **When Slide Closed:** To select "Stop Preview" or "Continue Preview" with up or down Navigation Key.
   - **Call Receiving:** Specify whether or not to block incoming call during video recording. To select "Always Ignore" or "Provide Option" with up or down Navigation Key.
   - **Shutter Sound:** To select "Ready Sound (Cheese, Ready?, Smile, Mute)" and "Shutter Sound (Sound 1 ~ Sound 4, Mute)" with up or down Navigation Key.
   - **Capture Sound:** To select "Sound" or "No Sound" with up or down Navigation Key.
   - **Set Storage:** To select "Internal" or "External" with up or down Navigation Key.
   - **Viewfinder:** To select "Shot Settings (Show All Indicators, Hide Indicators)" and "Crosshairs (Hide, Show)" with up or down Navigation Key.

2. To preview set options, press [PREVIEW]. Press [SAVE] to save option.

PRINT PHOTOS

The Ocean comes equipped with a 2-megapixel built-in camera that allows you to print images directly to a printer using PictBridge technology. A USB cable must be connected between your handset and the printer before any printing can occur.

1. Connect the USB cable between your handset and the USB connector on the printer (Printer must support PictBridge technology).
2. Press [MENU] 3 DEF 7 PQRS.
3. Read the message and press [OK].

MEMORY INFO

To view "Internal" or "External" memory information.

1. Press [MENU] 3 DEF 8 TUV.
2. Select "Internal Memory" or "External Memory" with the left or right Navigation Key.
3. The memory information appears.
4. To return to the previous page, press [OK].

From the Video+Music menu, press to access the Get Video menu, press to access the Get Music menu.

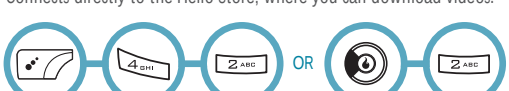
VIDEO

1. Press [MENU] or .
2. Select one of the following options with up or down Navigation Key.

1. Playlists: To play, add, rename or delete a playlists.
2. Videos: To display all video lists.
3. Settings
- Sleep Timer: To select “Unlimited”, “30 min”, “1 hr”, “1 hr 30 min”, “2 hr” or “3 hr” with Navigation Key, then press .
- Shuffle+Repeat: To select “Normal”, “Shuffle All”, “Repeat All” or “Repeat One” with Navigation Key, then press .

DOWNLOAD VIDEO

Connects directly to the Helio Store, where you can download videos.



1. Press [MENU] or .
2. Connecting to Helio Service.

VIDEO PLAYER

Video Main
(Does not interrupt playback)

/	Volume Up / Volume Down (Volume Level: 0, 1~10)
	Prev. Video (Short Press) Fast Rewind (Long Press)
	Cycle through play modes (same as settings)
	Next Video (Short Press) Fast Forward (Long Press)
	Play / Pause (Short Press)
	Full Screen mode (Once in landscape mode, down key in this direction still performs as Full Screen toggle)

- **By pressing [MENU], you can choose from the following:**
  1. Full Screen:
  2. Add to Playlist:
  3. Details:
  4. Settings:

■ MUSIC

1. Press [MENU] or .
2. Select one of the following options with up or down Navigation Key.

1. Playlists: To play, create, rename or delete playlists.
2. Artists: To display all artists list.
3. Albums: To display all albums list.
4. Songs: To display all songs list.
5. Genres: To display all genres list.
6. Settings
- Sleep Timer: To select “Unlimited”, “30 min”, “1 hr”, “1 hr 30 min”, “2 hr” or “3 hr” with Navigation Key, then press .
- Shuffle+Repeat: To select “Normal”, “Shuffle All”, “Repeat All” or “Repeat One” with Navigation Key, then press .
- Equalizer: To select “Auto”, “Default”, “Rock”, “Jazz”, “Classic” or “Pop” with Navigation Key, then press .

■ DOWNLOAD MUSIC

Connects directly to the Helio Music Store, where you can download music.

1. Press [MENU] or .
2. Connecting to Helio Service.

MUSIC PLAYER

Music Main
(Does not interrupt playback)

/	Volume Up / Volume Down (Volume Level: 0, 1~10)
	Prev. Song (Short Press) Fast Rewind (Long Press)
	Play / Pause (Short Press)
	Cycle through play modes (same as settings)
	Next Song (Short Press) Fast Forward (Long Press)
	View playlist from which current song was played.

■ MEMORY

MEMORY INFO

To view memory information.

1. Press [MENU] 4 GHI 5 JKL 1 or 5 JKL 1.
2. The “Internal”, “Used”, “Free”, “External”, “Used”, and “Free” memory information appears.
3. Press [OK].

CLEAR MEMORY

To format internal or external memory.

1. Press [MENU] 4 GHI 5 JKL 2 ABC or 5 JKL 2 ABC.
2. Select “Internal Memory” or “External Memory” with up or down Navigation Key.

   - **Internal Memory:** To select “All Media” or “All Media+Licenses”, Enter your password, then press [YES].
   - **External Memory:** Enter your password, then press [YES].

3. Press [OK].

From the Contact menu, press to access the My Number menu, press to access the New menu.

Stores up to 4500 entries (2500 Helio, 1000 Yahoo!, and 1000 AOL), each of which can be assigned to a group. Entries can be retrieved by name, handset number or group.

NOTE

SERVICE NUMBER

- **Customer Care:** 611
- **Emergency:** 911
- **Information:** 411
- **My Number:** My Handset Number
- **Voicemail:** My Handset Number

NEW CONTACT

Adds a new entry.

1. To add a new entry to the phone book, press [CONTACT] [1].
2. To enter a name or number, use the Navigation Key to select the phone book field.

- **Contact Field:** First Name, Last Name, Graphic, Phone Number 1 ~ 6, Speed Dial, Ring, Default Number, Email, Instant Messaging, MySpace, Notes, Group.
- **Handset Number Type:** Mobile, Home, Work, Fax, Mobile2, Other.
- **Group Type:** Press [LIST] to select options. (Friends, Family, Work, School, Other, New Group, Rename Group, No Group)
- Press [Add...] to add additional details for the Contact such as more Email addresses, Street Address, Nickname, Title, Company, Department, or Website.

3. To save the entry, press [SAVE].
   To return to the previous page, press .

NOTE Please refer to page 39 for more details on entering letters, numbers & symbols.

EDIT CONTACT

1. Press [CONTACT].
2. The list of names in your phone book is displayed alphabetically. Select entry with the Navigation Keys.
3. Press [MENU] [2].
4. To enter a name or number, use the Navigation Key to select the phone book field.
5. Press [MENU] to 1. Add More Details, 2. Merge Contacts, 3. Paste Link.
6. To edit a entry, then save contact, press [SAVE].

DELETE CONTACT

1. Press [CONTACT].
2. The list of names in your phone book is displayed alphabetically. Select entry with the Navigation Key.
3. Press [MENU] [3].
4. Read the message. (Delete “entry’s name”?)
5. Press [CANCEL] or [OK].

■ SEARCH CONTACTS

You can review all the entries stored in your phone book list or find an entry quickly by entering all or part of a name.

1. Press [CONTACT] 4 GHI .
2. Enter a name or its character string, press [SEARCH]. All matching entries will be displayed. Highlight an entry.
3. Press [VIEW]. To display the entry's details.
4. To call the selected number, press [CALL]. To send a message, press [MSG].

■ COPY CONTACT

COPY TO NEW CONTACT

① Press [CONTACT].
② Select an existing entry name.
③ Press [MENU] 5 JKL 1 .
④ To edit the entry, press [SAVE].

COPY TO EXISTING CONTACT

① Press [CONTACT].
② Select an existing entry name.
③ Press [MENU] 5 JKL 2 ABC .
④ The list of names in your phone book is displayed alphabetically. Select entry with the Navigation Key.
⑤ To combine entries, press [SAVE].

SYNCHRONIZE

1. Press [CONTACT].
2. Press [MENU] 6 MNO.
3. Select MyHelio Sync, Yahoo! Sync, or AOL Sync, press .

- Yahoo! and AOL Sync options will only appear after you have configured your Yahoo! or AOL email (see Email section for details).
- **MyHelio Sync (standard method):**
  - Sync Now: To sync port contacts
  - Recover Address Book: Read the message, press [NO] or [YES].
  - Sync Settings: To select "Two-way (standard)", "From Server Only" or "From Device Only" with left or right Navigation Key, press [SAVE].
- **Yahoo! Sync:**
  - Sync Now: To sync portal contacts
  - Sync Settings: To enable or disable Yahoo! sync by default.
- **AOL Sync:**
  - Sync Now: To sync portal contacts
  - Sync Settings: To enable or disable AOL sync by default.

NOTE You may need to run Yahoo! Contact Sync a few times to synchronize all your contacts.

GROUP DUPLICATES

1. Press [CONTACT].
2. Press [MENU] 7 PQRS.
3. To group all entries with duplicate names into a single entry.

NOTE This can be undone at any time by using the Separate Duplicates feature.

SEPARATE DUPLICATES

1. Press [CONTACT].
2. Press [MENU] 8 TUV.
3. To separate all duplicate names that were combined previously using the Group Duplicates feature.

SETTINGS

1. Press [CONTACT].
2. Press [MENU] .

- **Name Display:** Press [LIST] to select "First name Last name" or "Last name First name".
- ☐ **Hide Yahoo! Contacts:** Press to check it.
- ☐ **Hide AOL Contacts:** Press to check it.
- **Usage Stats:** Press [GO] to usage contacts information appears.

3. Press [SAVE] to save it.

EMAIL AS VCARD

1. Press [CONTACT].
2. The list of names in your phone book is displayed alphabetically. Select entry with the Navigation Keys.
3. Press [MENU] .
4. To move a email editor.
5. To compose a email, press [SEND].

SELECT MULTIPLE

1. Press [CONTACT].
2. Press [MENU] .
3. To marked entry with [CHECK/UNCHECK].
4. Press [MENU] to 1. Delete Checked, 2.Check All, 3.Uncheck All.

REFRESH PRESENCE

1. Press [CONTACT].
2. Press [MENU] .

NOTE This will update your IM presence for contacts in your IM list that have been Synchronized from your Yahoo! or AOL list. You must be logged into your IM session to see presence.

From the Games menu, press [MENU] to access the Download menu, press [CHECK/UNCHECK] to access the Last menu.

DOWNLOAD GAME

1. Press [MENU] 6 MNO or .

Press the [MENU] to access the following Option:

- **Move to Folder:** To move the selected game to the other saved location or folders.
- **Rename:** To rename a selected folder.
- **Info:** Displays information of the selected folder.
- **Delete:** To delete a selected folder.
- **New Folder:** To add a new folder.
- **Settings:** To select "Download Summary" and "Delete All Files" with up or down Navigation Key.

From the PLAN menu, press [MENU] to access the Calendar menu, press [CHECK/UNCHECK] to access the New menu.

CALENDAR

Sets an event reminder.

1. Press [MENU] 7 PQRS 1.
2. Move the Navigation Key left, right, up or down to choose a date in the calendar and then press . Press [MENU] to 1. New Event, 2. New Annual Event, 3. Delete Range, 4. View List, 5. Alarm Settings or 6. Search Calendar. Press [MONTHLY/WEEKLY/DAILY] to exchange display mode.

If selected "Alarm Settings", to access the following option:

- **Events:** - Ring: Select ringer type.
  - Vibrate: Select alert mode
  - Screen: Select screen image.
- **Annual Events:** - Alarm On: Press [CHECK/UNCHECK].
  - Time: To set alarm time.
  - Ring: Select ringer type.
  - Vibrate: Select alert mode
  - Screen: Select screen image.

3. To set a new annual event, press [MENU] then select "New Annual Event". The title field is highlighted. Press the Navigation Key down to set the annual event options.

SUBJECT
Use the keypad to enter a title in your annual event.

DATE
Use the keypad to change or enter the date.

ANNUALLY
Press to check annually set.

CONTENTS
Use the keypad to input an anniversary plan message.

4. Press [SAVE] to save it or to return to the calendar.
5. To set a new schedule, press [MENU] then select “New Event”. Select “Set Time”, “Everyday”, “Every Week”, “Every Month” or “Every Year”.
6. The title/period field is highlighted. Press the Navigation Key down to set the schedule options.

SUBJECT
Use the keypad to enter a title in your schedule.

START TIME
Use the keypad to set a start time and to select “AM” or “PM”.

END TIME
Use the keypad to set an end time and to select “AM” or “PM”.

CONTENTS
Use the keypad to input an anniversary plan message.

ALARM ON
Use the Navigation Key to select alarm On/Off.

ALARM TIME
Use the keypad to set an end time and to select “AM” or “PM”.

7. Press [SAVE] to save it or to return to New Event List.

■ WAKE-UP CALL

Sets a Wake-up Call.

1. Press [MENU] 7 PQRS 2 ABC.
2. The Set Wake-up Call field is highlighted. Press the Navigation Key down to set the Wake-up Call options.

SET WAKE-UP CALL
Use the Navigation Key to select Set Wake-up Call “Off”, “Mon-Fri”, “Mon-Sat”, “Everyday”.

NO HOLIDAY
Press to check No Holiday.

ALARM TIME
Use the keypad to set an alarm time and [ ] to select "AM" or "PM".

REPEAT
Use the Navigation Key to select repeat time "None", "2 times", "3 times", "4 times", "5 times".

INTERVAL
Use the Navigation Key to select interval time "5min", "10min", "15min".

RING
To set a "Ring" using the left or right Navigation Key. (Dingaling, I'm Callin', Space Dragon, The Federation, Silky Sky, Circle&Circle, HipHoop 2005, Monk, Minuet for Baby, Samadhi, Rainyday, China Cruising, Karma, Trill Harmonic, Hypnosis)

VIBRATE
Use the Navigation Key to select vibrate type "Ring Only", "Vibration", "Vib then Ring", "Vib + Ring".

SCREEN
To set a "Screen" using the left or right Navigation Key. (No picture, Helio Night, Helio Day, Helio Orange, Sea, Helio Type 1 ~ 3, Light Rain, Monoeye, Organic, Pattern Type 1 ~ 4, Starmap, Waterdrop, Zigzag Type 1 ~ 2, Diva, Empire, Hula Tiki, Lucky Cat, Calendar, Wake-up Call, Alarm)

❸ Press [ ] [PREVIEW] to preview it.
Press [ ] [SAVE] to save it.

■ ALARM

❶ Press [ ] [MENU] [7 PQRS] [3 DEF].

❷ To set a new alarm, press [ ] [NEW].

❸ To select alarm options.

- **After 10 min:** To set alarm after 10 minutes.
- **After 20 min:** To set alarm after 20 minutes.
- **After 30 min:** To set alarm after 30 minutes.
- **After 1 hour:** To set alarm after 1 hour.
- **Set Time:** To set alarm time.
- **Everyday:** To set alarm time every day.
- **Every Week:** To set alarm time every week.
- **Every Month:** To set alarm time every month.

ALARM ON
Use the Navigation Key to select alarm on On/Off.

EXCEPT HOLIDAY
Press [ ] to check Except Holiday.

DATE
Use the keypad to change or enter the date.

ALARM TIME
Use the keypad to set an alarm time and [ ] to select "AM" or "PM".

MEMO

Use the keypad to input an alarm message.

4. Press [SAVE] to save it.
5. Press [MENU] to 1. Delete or 2. Delete All.

CALCULATOR

To access the calculator:

1. Press [MENU] 7 PQRS 4 GHI.
2. Follow the instructions below to calculate 8X6÷4-2.5=9.5

- Input 8.
- Press the Up Navigation Key (x).
- Input 6.
- Press the Down Navigation Key (÷).
- Input 4.
- Press the Right Navigation Key (-).
- Input 2 and press *, to input (.).
- Press 5, .
- Answer appears on the right side of the blue box below calculation.

3. To reset, press [CLEAR].

NOTE

- To change the displayed number from positive (+) to negative (-) and vice versa, press 0 [±].
- To view cal history, press [HISTORY].

WORLD TIME

To display the time and date in pre-programmed cities:

1. Press [MENU] 7 PQRS 5 JKL.
2. Select a city with the Navigation Key.
3. The world map appears with the city, its date and time.

NOTE

If daylight saving time does not apply, it may be different from the actual time during DST, press [DST].

4. To return to the previous page, press .

UNIT CONVERTER

To access the unit converter:

1. Press [MENU] 7 pqrs 6 mno.
2. Select the desired convert unit item with left or right Navigation Key, and input number.
3. To change the unit type (for example: m, cm...) with left or right Navigation Key.

   - **Cm:** Centimeter, Meter, Inch, Feet, Yard, Mile.
   - **Cm²:** Square meter, Are, Square Foot, Square Yard, Acre.
   - **Kg:** g, Kg, Ton, Grain, Ounce(oz), Pound(lbs).
   - **MI:** Cubic Cm, Cubic Meter, Liter, Cubic Inch, Cubic Foot, Cubic Yard, Galon.
   - **C:** Celsius, Fahrenheit.

4. Press [OK] to result appears on bottom below converter.

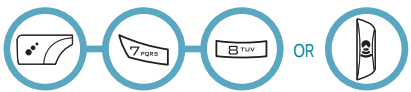
NOTEPAD

Your handset includes an internal notepad that can be used to compose and store reminders and notes. To compose a memo (there is a 220-letter limit):

1. Press [MENU] 7 pqrs 7 pqrs.
2. Input a new text memo, press [NEW].
   (Please refer to page 39 for more details on entering letters, numbers & symbols.)
3. Press [SAVE] to save memo.
4. The list of all memos, in saved order, is displayed.
   Select a memo, press [VIEW].
   - Press [MENU] to “Edit”, “Delete”, “Delete All”.
   - To add a new memo, press [NEW].
5. The selected memo will appear.
   To edit it, press [EDIT], select “Edit” and input a new text memo, then press [SAVE] to save edit memo.

■ VOICE MEMO

Voice Memo allows you to record a reminder message that can be up to remain time. To record a memo:



1. Press [MENU] 7 PQRS 8 TUV or .
2. Record a new voice memo, press [NEW].
3. To stop recording a memo, press [SAVE] to save voice memo.
4. The list of all memos, in saved order, is displayed. Select a memo and press [PLAY].

   Press [MENU] to “Delete”, “Delete All”, “Rename”, “File Info”, “Send Message”.

■ STOPWATCH

Simultaneously times up to 20 different events.
To operate the stopwatch:

1. Press [MENU] 7 PQRS 9 WXYZ.
2. To measure a time period.
   - To start the stopwatch, press [START].
   - To pause it, press [PAUSE].
   - To resume it, press [RESUME] or press [RESET] to reset it.
   - To return to the previous page, press .
3. To time up to 20 events at once:
   - To start, press [START].
   - To stop a time period and continue measuring another one, press [SAVE].
   - To stop the second and continue measuring a third one, press [SAVE].
   - To measure up to 20 time periods, repeat the above steps.
   - To stop the stopwatch, press [PAUSE].
   - To review the results, press [VIEW].
   - To return to the stopwatch, press .
   - To reset it, press [RESET].

■ MEMORY INFO

To view “Internal” or “External” memory information.

1. Press [MENU] .
2. Select “Internal Memory” or “External Memory” with left or right Navigation Key.
3. The memory information appears.
4. To return to the previous page, press [OK].

From the Message menu, press to access the Inbox menu, press to access the Write menu.

■ WHEN A NEW MESSAGE ARRIVES

1. The following display appears when a new message arrives.
2. To display the message, press [VIEW].

■ MESSAGE

1. Press [MENU] or .

- **By pressing [MENU], you can choose from the following:**
  1. **Sign Out All:** Signs out all IM accounts that are currently signed in.
  2. **Setup Email Accounts:** Set user preferences for prepopulated emails and setup new email boxes. Ocean allows you to set up two (2) more mailboxes using any POP3 or IMAP account. Note that some IMAP Exchange accounts may need to be tested and customized with your system administrator."
  3. **Move:** Changes the order of menus on the current message screen.
  4. **Help:** Help information.

SEND TEXT/PIC

In the message menu, you can open the keypad to writing a message quickly. To compose a new text message:

1. Press [MENU] or .
2. "To" field is highlighted. Input the recipient handset number and press .

   - **By pressing [CONTACTS], you can choose from the following:**
     1. **Groups:** To select all the phone numbers in a group.
     2. **Call log:** To search for a handset number in the call history.
     3. **Contacts:** To search for a handset number or email address in your saved contacts.

NOTE
- Input maximum of 10 recipients in the "To" filed.
- You can select multiple Contacts by using the "Multi" function while searching Contacts.

3. The "Message" field is highlighted.
   Input a new text message and press .

   - **By pressing [MENU], you can choose from the following:**
     1. **Insert Symbol:** To insert a symbol from the 8 pages available. Use the corresponding number to select.
     2. **Insert Emoticon:** To insert an emoticon from the separate 8 pages available. Note that more recipient handesets may not be able to display the emoticon images.
     3. **Insert Quick Text:** To insert the written sentences from the Quick Text list.
     4. **Add Background:** To add a background design to your message from the 10 available. Note that this change will send your message as a Pic Message.
     5. **Add Background Color:** To add a background color from the 15 available. Note that this change will send your message as a Pic message.
     6. **Change Text Color:** To change the text color from 15 available colors. Note that this change will send your message as a Pic message.
     7. **Save to Drafts:** To save a message to "Drafts" folder.
     8. **Save as Quick Text:** Saves the written sentences into Quick Text.

4. The "Add" field is highlighted.
   To insert an image or media.

   - **By pressing [ADD], you can choose from the following:**
     1. **Photos:** To attach a picture from your internal memory.
     2. **Voice Recordings:** To attach a recorded audio file.
     3. **Video Recordings:** To attach a video from your internal memory.
     4. **Save to Drafts:** To save the message to the "Drafts" folder.

5. To send the Text message, press [SEND].
   You want to preview mode, press [PREVIEW].

TEXT/PIC INBOX

The Inbox manages received Text/Picture messages. To access:

1. Press [MENU] .
2. Select a message and press .
   If URL is included, press [GoTo].
   If handset number is included, press [CALL].
   If video file is included, press [PLAY/STOP].
3. To reply to the message, press [REPLY].

- **By pressing [MENU], you can choose from the following:**
  1. **New Message:** To compose a new message.
  2. **Reply:** Type your reply.
  3. **Forward:** Input the handset number of the person you are sending the message.
  4. **View Folders:** To select “Saved”, “Sent”, “Drafts” or “Trash” with up/down Navigation Key.
  5. **Save Message:** To save the Text/Pic message in your handset.
  6. **Select Multiple:** To check/uncheck the received message.
  7. **Delete All:** To delete all received message.
  8. **View Message Info:** To show received message informations.

9. **Settings:**
   - **Msg Received Alert:**
     - Msg Rcvd Alert: To select “1 Time” or “Every 2 min”.
     - Alert Type: To select “Sound 1 ~ Sound 4”, “Light” or “Vibr”.
     - Alert Volume: To select “Level 1 ~ Level 5”.
     - Alert Status: To select “On” or “Off”.
   - **Photo size:** To select “Reduced size(640x480)” or “Original size”.

- **In read the message, by pressing [MENU], you can choose from the following:**
  - **Delete**
  - **Forward**
  - **Save message**
  - **Add to Contacts**
  - **View Message Info**
  - **Save Sender’s Number**
  - **Call Selected Number**
  - **Msg Selected Number**
  - **Save email address**
  - **Create New Contact**

OVER-THE-AIR SETTINGS SERVICE

To use wireless services such as MMS, you need to have proper connection settings on your handset. These settings may have already been set up by your service provider. If not, you may obtain the settings directly as an OTA message, and save them on your handset. For more information, contact your service provider.

You may be able to receive the connection settings for EGPRS, multimedia messages, synchronization, Email, and multimode browser. When you have received the connection settings as an OTA message, Connection settings received is displayed.

INSTANT MESSAGING

Ocean provides access to your Yahoo!, AOL, or Windows LIve Instant Messaging services. If you're a registered user, you can take the experience with you on your Ocean. From your Message screen just navigate to the portal to get started. There are three tabs inside each of the portals; IM Contact List, Converstaion Screen, and Email.

SIGN-IN

From the IM Contacts screen on the far left, you will be prompted to Sign-in to the portal with your ID and password.

IM CONTACT LIST

Once Signed-in, you can see all your IM Contacts.

Select for Menu items to manage your Contacts. Note that some language is different for each service.

- **My Status:** To set the current status you want to show for yourself.
- **Sign Out / Sign Off:** To log off the IM service.
- **Group Message:** To select multiple IM contacts to send a message to. Note, unlike the desktop, this will create separate Conversations once sent.
- **Send Message/IM to:** To send a new message to someone not already in IM contact lists.
- **Add Contact:** To add a new contact to list of IM contacts.
- **Delete Contact:** To delete a contact from list. Note, this will delete them from your PC version as well.
- **Contact Status / Info:** To view the address book information for the IM contact.
- **Various feature depending on Service**
- **Refresh List:** To update the presence information for contacts.
- **Settings:** To change user preferences including ability to show as invisible and control what contacts will show.

CONVERSATION

To start a Conversation with a contact, simply select them from the contact list. This will open a Conversation window in the second tab.

Select for Menu items for managing Conversations. Note that some language is different for each service.

- **Insert Symbol:** Ocean has 8 screens of symbols to help, navigate to find, use corresponding number to select, and Press to insert.
- **Insert Emoticon:** To include your portal emoticons in a conversation.
- **Insert Quick Text:** Choose from portal Quick Text options in a Conversation.
- **Paste Link:** To add a linked address.
- **Add Attachments:** To add an attachment, including photos and some other files. Note only available for Yahoo! and AOL.
- **Block:** To block further conversations with the sender of an IM message.
- **Delete Current Text:** To remove everything currently in text input box.

EMAIL MESSAGES

Mobile email allows you to access your Yahoo! Mail, AOL Mail, AIM Mail, Windows Live (Hotmail or MSN Mail), Gmail, Earthlink, or Helio Mail accounts on your handset. Now you can quickly and easily check your email while you're away from your computer. You can also configure up to two custom email accounts for work, home, school, or other if your email provider uses a standard POP3 or IMAP server.

NOTE

- When sending email, your handset may display the words Message sent. This is an indication that the email has been sent by your handset to the email server. This is not an indication that the email has been received at the intended destination. For more details about email services, check with your service provider.
- Preview size of each message is set to 500 characters. Message larger than the preview size will be truncate and more can be downloaded from within the message body window. You can increase the preview size or choose to always receive the full message from the settings menu. Note that can slow the Send/Receive time.
- Maximum email size is set at 10,000 characters. You can raise this up to 99,999 from the settings menu. Note that this can also drastically slow the Send/Receive time.

SEND EMAIL

In the message menu, you can open the keypad to writing a email quickly. To compose a new email message:

1. Press [MENU] 2 ABC .
2. Select the Email Account you would like to send the email from. The list will show all Email Accounts that you currently have configured (username and password entered). If you only have one account configured or have identified a particular Email Account as your "default", it will automatically go to the Compose Screen for that account.
3. The "To:" field is highlighted. Input the recipient email and press .

   - **By pressing [MENU], you can choose from the following:**
     1. **Contacts:** To search for a email address in the contact.
     2. **Add Attachment:** To add an attachment to an email.
     3. **Add Cc:** To add a carbon copy email address.
     4. **Add Bcc:** To add a blind carbon copy email address.
     5. **Save to Drafts:** To save a message to "Draft" folder.
     6. **Return to Mailbox:** To return to main message menu.

4. The "SUBJ" field is highlighted. Input the Subject and press .

- **By pressing [MENU], you can choose from the following:**
  1. **Insert Symbol:** To insert a symbol from the 8 pages available. Use the corresponding number to select.
  2. **Insert Emoticon:** To insert an emoticon from the separate 8 pages available. Note that more recipient handesets may not be able to display the emoticon images.
  3. **Insert Quick Text:** To insert the written sentences from the Quick Text list.
  4. **Paste Link:** To add a linked address.
  5. **Add Attachment:** To add an attachment, including photos, videos, or other files saved previously from emails. Note that Helio support email downloads up to 1MB.
  6. **Add Cc:** To add a carbon copy email address.
  7. **Add Bcc:** To add a blind carbon copy email address.
  8. **Save to Drafts:** To save a message to "Draft" folder.
  9. **Return to Mailbox:** To return to main message menu.

❹ The "Message" field is highlighted. Input a new email.

- **By pressing [MENU], you can choose from the following:**
  1. **Insert Symbol:** To insert a symbol.
  2. **Insert Emoticon:** To insert an emoticon image.
  3. **Insert Quick Text:** To insert the written sentences from the Quick Text list.
  4. **Paste Link:** To add a linked address or other text.
  5. **Add Attachment:** To add an attachment to an email.
  6. **Add Cc:** To add a carbon copy email address.
  7. **Add Bcc:** To add a blind carbon copy email address.
  8. **Save to Drafts:** To save a message to "Draft" folder.
  9. **Return to Mailbox:** To return to main message menu.

❺ To send the email, press [SEND].

HELIO MAIL

To use your Helio Mail account, you just need to setup your password. As a Helio member, you automatically received a your_device_number@myhelio.com Email Account (ex. 3105551212@myhelio.com) and have the option to create a friendly username during the password process.

To do this, go to http://www.helio.com, click on the "My Account" link, and follow the instructions under "Need a Password". Next, click on "Personalize Email" to create your unique friendly email address.

In the future you can access your Helio Mail only at http://webmail.myhelio.com or on your Ocean. When performing the "Synchronize" feature from the Contact Menu, it will syncrhonize your contacts from the device to the Helio mail Address Book and can be used to transfer contacts entered or imported online to your device.

To compose a new Helio email message:

❶ Press [MENU] 4 GHI.

YAHOO!

❶ Press [MENU] 5 JKL.

❷ Input the "Yahoo! ID" and press .

❸ Input the "Password" and press .

AOL

1. Press [MENU] 6 MNO.
2. Input the “Screen Name” and press .
3. Input the “Password” and press .

WINDOWS LIVE

1. Press [MENU] 7 PQRS.
2. Input the “E-mail address” and press .
3. Input the “Password” and press .

GMAIL

1. Press [MENU] 8 TUV.
2. Read the message, press .

EARTHLINK

1. Press [MENU] 9 WXYZ.
2. Read the message, press .

EMAIL MENU OPTIONS

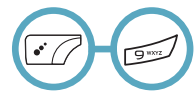
- **By pressing [MENU], you can choose from the following:**
  1. **Send/Receive:** Starts the syncing process to download new emails and send any updates you made on the device back to the web version.
  2. **New Email:** To compose a new email.
  3. **Reply:** To reply to an email.
  4. **Forward: :** To forward an email.
  5. **Vlew Folders:** To view other folders such as Sent, Drafts, Outbox, or Trash.
  6. **Cancel Send/Receive:** To view other folders such as Sent, Drafts, Outbox, or Trash.
  7. **Select Multiple:** This mode lets you delete multiple emails at the same time.
  8. **Mark as Read/Unread:** To change the status of email between read and unread."
  9. **Settings:** To change user configurable settings (General, Sort By, or Folder Options).
  0. **View Sender:** To show sender's informations.
  *. **Add to Contacts:** To add the address to the contacts list.

■ CUSTOM POP3/IMAP

Enter the “exact” configuration details provided by your email provider. Make sure to select either IMAP or POP3 for Incoming Mail Server Type to match your email provider and confirm all other form details are correct. All fields must be accurate for access to work.

From the APPS menu, press to access the Download menu, press to access the Last menu.

Access your downloaaded games and applications. You can also specify settings for application.

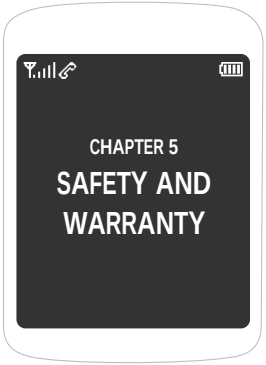


1. Press [MENU] .
2. To set application as your topmost application, select one of the following options with up or down Navigation Key.

Press the [MENU] to access the following Option:

- **Move to Folder:** To move the selected application to the other saved location or folders.
- **Rename:** To rename a selected application.
- **Info:** Displays information of the selected application.
- **Delete:** To delete a selected application.
- **New Folder:** To add a new folder.
- **Settings:** To select “Download Summary” and “Delete All Files” with up or down Navigation Key.

MEMO



This chapter addresses the safety guidelines and precautions to follow when operating your handset. Before operating your handset, please be aware of all the safety details.
This chapter contains the terms and conditions of services and the warranty for your handset. Please review them thoroughly.

SAFETY INFORMATION FOR WIRELESS HANDHELD HANDSETS
SAFETY INFORMATION FOR FCC RF EXPOSURE
SAR INFORMATION
FCC HEARING-AID COMPATIBILITY (HAC) REGULATIONS FOR WIRELESS DEVICES
FDA CONSUMER UPDATE
PROTECT YOUR WARRANTY
12 MONTH LIMITED WARRANTY

Read This Information Before Using Your Handheld Portable Cellular Device

EXPOSURE TO RADIO FREQUENCY SIGNALS

Your wireless handheld portable device is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.

In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for handheld wireless handsets. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

ANSI C95.1 (1992) *
NCRP Report 86 (1986) *
ICNIRP (1996) *

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C951).

The design of your handset complies with the FCC guidelines (and those standards).

ANTENNA CARE

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the handset and may violate FCC regulations.

1* : American National Standards Institute.
2* : National Council on Radiation protection and measurements.
3* : International Commission on Nonionizing Radiation Protection.

DRIVING SAFETY

Talking on the handset while driving is extremely dangerous and is illegal in some states. Remember, safety comes first. Check the laws and regulations on the use of handsets in the areas where you drive. Always obey them.

Also, if using your handset while driving, please:

- Give full attention to driving. Driving safely is your first responsibility.
- Use hands-free operation, if available.
- Pull off the road and park before making or answering a call, if driving conditions so require.

If you must use the handset while driving, please use one-touch, speed dialing, and auto answer modes.

An airbag inflates with great force. DO NOT place objects, including both installed or portable wireless equipment, in the area over the airbag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

NOTE **WARNING:** Failure to follow these instructions may lead to serious personal injury and possible property damage.

ELECTRONIC DEVICES

Most modern electronic equipment is shielded from RF energy. However, certain electronic equipment may not be shielded against the RF signals from your wireless handset.

PACEMAKERS

The Health Industry Manufacturers Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless handset and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.
Persons with pacemakers :

- ALWAYS keep the handset more than six inches from your pacemaker when the handset is turned on.
- Do not carry the handset in a breast pocket.
- Use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, turn your handset OFF immediately.

OTHER MEDICAL DEVICES

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn your handset OFF in healthcare facilities when any regulations posted in these areas instruct you to do so. Hospitals or healthcare facilities may be using equipment that could be sensitive to external RF energy.

POSTED FACILITIES

Turn your handset OFF where posted notices so require.

OTHER SAFETY GUIDELINES

AIRCRAFT

FCC regulations prohibit using your handset while in the air. Turn your handset OFF before boarding an aircraft. Always request and obtain prior consent and approval of an authorized airline representative before using your handset aboard an aircraft. Always follow the instructions of the airline representative whenever using your handset aboard an aircraft, to prevent any possible interference with airborne electronic equipment.

BLASTING AREAS

To avoid interfering with blasting operations, turn your handset OFF when in a "blasting area" or in areas posted: "Turn off two-way radio." Obey all signs and instructions.

POTENTIALLY EXPLOSIVE ATMOSPHERES

Turn your handset OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include fueling areas such as gas stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle's engine.

PRECAUTIONS

Your Handheld Portable Device is a high quality piece of equipment. Before operating, read all instructions and cautionary markings on (1) AC Adaptor (2) Battery and (3) Product Using Battery.

- DO NOT use this equipment in an extreme environment where high temperature or high humidity exists.
- DO NOT abuse the equipment. Avoid striking, shaking or shocking. When not using, lay down the unit to avoid possible damage due to instability.
- DO NOT expose this equipment to rain or spilled beverages.
- DO NOT use unauthorized accessories.
- DO NOT disassemble the handset or its accessories. If service or repair is required, return unit to an authorized Pantech cellular service center. If unit is disassembled, the risk of electric shock or fire may result.
- DO NOT short-circuit the battery terminals with metal items etc.

NOTE

WARNING!

- This product contains a chemical known to the State of California to cause cancer.
- This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

WARNING! READ THIS INFORMATION BEFORE USING

CAUTIONS

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this handset complies with the FCC guidelines and these international standards. Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the handset, or result in violation of FCC regulations. Do not use the handset with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

BODY-WORN OPERATION

This device was tested for typical body-worn operations with the back of the handset kept 2.0 cm. from the body. To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories that maintain a 2.0 cm. separation distance between the user's body and the back of the handset, including the antenna. The use of belt-clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

NOTE

For more information about RF exposure, please visit the FCC website at www.fcc.gov.

THIS MODEL HANDSET MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless handset is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile handsets employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. * Tests for SAR are conducted with the handset transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the handset while operating can be well below the maximum value. This is because the handset is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a handset model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model handset when tested for use at the ear is 0.724 W/Kg and when worn on the body, as described in this user guide, is 0.596 W/Kg. (Body-worn measurements differ among handset models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various handsets and at various positions, they all meet the government requirement for safe exposure.

The SAR testing for Body-worn operation was performed with a belt clip that provided a 20mm separation. The User's Manual indicates that any holsters/clips used with this device should contain no metallic components.

The FCC has granted an Equipment Authorization for this model handset with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model handset is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/ oet/fccid after searching on PP4PN-810.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) web-site at http://www.wow-com.com.

* In the United States and Canada, the SAR limit for mobile handsets used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a sub-stantial margin of safety to give additional protection for the public and to account for any variations in measurements.

FCC HEARING-AID COMPATIBILITY (HAC) REGULATIONS FOR WIRELESS DEVICES

On July 10, 2003, the U.S. Federal Communications Commission (FCC) Report and Order in WT Docket 01-309 modified the exception of wireless handsets under the Hearing Aid Compatibility Act of 1988 (HAC Act) to require digital wireless handsets be compatible with hearing-aids. The intent of the HAC Act is to ensure reasonable access to telecommunications services for persons with hearing disabilities.

While some wireless handsets are used near some hearing devices (hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and handsets also vary in the amount of interference they generate.

The wireless device industry has developed a rating system for wireless handsets, to assist hearing device users find handsets that may be compatible with their hearing devices. Not all handsets have been rated. Handsets that are rated have the rating on their box or a label located on the box.

The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated handset successfully. Trying out the handset with your hearing device is the best way to evaluate it for your personal needs.

Your mobile device model complies with FCC rules governing hearing aid compatibility. These rules require an M3 microphone or higher value. The M-value, shown on the device box, refers to lower radio frequency (RF) emissions. A higher M-value generally indicates that a device model has a lower RF emissions level, which may improve the likelihood that the device will operate with certain hearing aids. Some hearing aids are more immune than others are to interference. Please consult your hearing health professional to determine the M-rating of your hearing aid and whether your hearing aid will work with this device.

This handset complies with the requirements set forth in Section 68.4 of the Federal Communication Commision's rules governing hearing aids and providing inductive coupling capability for the hearing aid's telecoil. The microphone (M) and telecoil (T) ratings are labeled on the box. Devices meeting HAC compliance have a minimum M3 or T3 rating. M refers to lower RF emissions levels for customers using their hearing aids in microphone mode. T refers to internal telecoil coupling for customers with t-coil-equipped hearing aids. Some hearing aids are more immune than others are to interference. To determine the immunity of your hearing aids, please contact your hearing health professional.

U.S. Food and Drug Administration - Center for Devices and Radiological Health Consumer Update on Wireless Handsets

1. Do wireless handsets pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless handsets. There is no proof, however, that wireless handsets are absolutely safe. Wireless handsets emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

2. What is FDA's role concerning the safety of wireless handsets?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless handsets before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless handsets are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless handsets to notify users of the health hazard and to repair, replace or recall the handsets so that the hazard no longer exists. Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless handset industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless handsets;
- Design wireless handsets in a way that minimizes any RF exposure to the user that is not necessary for device function;

and

- Cooperate in providing users of wireless handsets with the best possible information on possible effects of wireless handset use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration

The National Institutes of Health participates in some inter-agency working group activities, as well. FDA shares regulatory responsibilities for wireless handsets with the Federal Communications Commission (FCC). All handsets that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless handsets. FCC also regulates the base stations that the wireless handset networks rely upon. While these base stations operate at higher power than do the wireless handsets themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless handsets. Base stations are thus not the subject of the safety questions discussed in this document.

3. What kinds of handsets are the subject of this update?

The term "wireless handset" refers here to hand-held wireless handsets with built-in antennas, often called "cell," "mobile," or "PCS" handsets. These types of wireless handsets can expose the user to measurable radiofrequency energy (RF) because of the short distance between the handset and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the handset is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless handsets," which have a base unit connected to the device wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

4. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless handsets have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be predisposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless handsets, so we don't know with certainty what the results of such studies mean for human health. Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless handsets and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless handset RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of handset use in these studies was around three years.

5. What research is needed to decide whether RF exposure from wireless handsets poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless handsets would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do -may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless handsets. Many factors affect this measurement, such as the angle at which the handset is held, or which model of handset is used.

6. What is FDA doing to find out more about the possible health effects of wireless handset RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF). FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996.

An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues. FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless handset safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless handset users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

7. How can I find out how much radiofrequency energy exposure I can get by using my wireless handset?

All handsets sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless devices is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless handset and is set well below levels known to have effects. Manufacturers of wireless handsets must report the RF exposure level for each model of handset to the FCC. The FCC website (http://www.fcc.gov/oet/rfsafety) gives directions for locating the FCC identification number on your handset so you can find your handset's RF exposure level in the online listing.

8. What has FDA done to measure the radiofrequency energy coming from wireless handsets ?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radiofrequency energy (RF) exposure from wireless handsets and other wireless handsets with the participation and leadership of FDA scientists and engineers.

The standard, "Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques," sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless handset users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same handset. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless handset complies with safety guidelines.

9. What steps can I take to reduce my exposure to radiofrequency energy from my wireless handset?

If there is a risk from these products—and at this point we do not know that there is—it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radiofrequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless handset will reduce RF exposure.

- If you must conduct extended conversations by wireless handset every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless handset away from your body or use a wireless handset connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless handsets are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless handset use.

10. What about children using wireless handsets?

The scientific evidence does not show a danger to users of wireless handsets, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless handsets. Reducing the time of wireless handset use and increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless handsets at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless handset causes brain tumors or other ill effects. Their recommendation to limit wireless handset use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11. What about wireless handset interference with medical equipment?

Radiofrequency energy (RF) from wireless handsets can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless devices. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless handset EMI. FDA has tested hearing aids for interference from handheld wireless handsets and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless handsets so that no interference occurs when a person uses a "compatible" handset and a "compatible" hearing aid at the same time. This standard was approved by the IEEE in 2000. FDA continues to monitor the use of wireless handsets for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

12. Where can I find additional information?
For additional information, please refer to the following resources:

- FDA web page on wireless phones (http://www.fda.gov/cdrh/phones/index.html)
- Federal Communications Commission (FCC) RF Safety Program (http://www.fcc.gov/oet/rfsafety)
- International Commission on Non-Ionizing Radiation Protection (http://www.icnirp.de)
- World Health Organization (WHO) International EMF Project (http://www.who.int/emf)
- National Radiological Protection Board (UK) (http://www.nrpb.org.uk/)

Read your Warranty carefully, with the special consideration to paragraph seven of the Limited Warranty for your unit.

> "Warranty does not apply to... or to any product or part thereof which has suffered through alteration... mishandling, misuse, neglect or accident".

Many companies are making look alike accessories and in some cases, promoting that their product is equal to or better than the Pantech product. Be careful. Some of these products may not be compatible to use with your Pantech product and may damage the unit or cause it to malfunction. If service is required on your unit and it is determined that a non-Pantech accessory has created the problem with your unit, the Warranty will not apply. In addition, if the unit has already suffered irreversible damage by reason of a non-compatible accessory, the Warranty will be voided. To protect your Warranty, use only compatible accessories which cannot damage or interfere with the functioning of your Pantech product.

PANTECH WIRELESS, INC.
11240 Warland Drive, Cypress, CA 90630 (800) 962-8622

12 MONTH LIMITED WARRANTY

Pantech Wireless, Inc. (the Company) warrants to the original retail purchaser of this Pantech handheld portable cellular device, that should this product or any part thereof during normal consumer usage and conditions, be proven defective in material or workmanship that results in product failure within the first twelve (12) months period from the date of purchase, such defect(s) will be repaired or replaced (with new or rebuilt parts) at the Company's option, without charge for parts or labor directly related to the defect(s).

The antenna, key pad, display, rechargeable battery and battery charger, if included, are similarly warranted for twelve (12) months from date of purchase.

This Warranty extends only to consumers who purchase the product in the United States or Canada and it is not transferable or assignable.

This Warranty does not apply to:

(a) Product subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;

(b) Product whose mechanical serial number or electronic serial number has been removed, altered or defaced.

(c) Damage from exposure to moisture, humidity, excessive temperatures or extreme environmental conditions;

(d) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;

(e) Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts;

(f) Product damaged from external causes such as fire, flooding, dirt, sand, weather conditions, battery leakage, blown fuse, theft or improper usage of any electrical source.

The Company disclaims liability for removal or reinstallation of the product, for geographic coverage, for inadequate signal reception by the antenna or for communications range or operation of the cellular system as a whole.

To obtain repairs or replacement within the terms of this Warranty, the product should be delivered with proof of Warranty coverage (e.g. dated bill of sale), the consumer's return address, daytime handset number and/or fax number and complete description of the problem, transportation prepaid, to the Company by calling the number listed below or to the place of purchase for repair or replacement processing.

In addition, you may device us at (800) 962-8622, or email us at HandsetHelp@Pantech.com

THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY MUST BE BROUGHT WITHIN A PERIOD OF 18 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR AN SPECIAL CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. THE COMPANY SHALL NOT BE LIABLE FOR THE DELAY IN RENDERING SERVICE UNDER THIS WARRANTY OR LOSS OF USE DURING THE TIME THE PRODUCT IS BEING REPAIRED OR REPLACED.

No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

12 MONTH LIMITED WARRANTY

Some states or provinces do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitation or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state or province to province.